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**60% CD Estimate**

## **Somerset Middle School**

Somerset, MA

Prepared for:

**Ai3 Architects**

February 9, 2022



**Somerset Middle School**  
Somerset, MA

9-Feb-22

**60% CD Estimate**

**MAIN CONSTRUCTION COST SUMMARY**

	<b>Start Date</b>	<b>Gross Floor Area</b>	<b>\$/sf</b>	<b>Estimated Construction Cost</b>
<b>NEW CONSTRUCTION</b>				
NEW SCHOOL		124,200	\$400.05	\$49,685,697
DEMOLISH EXISTING BUILDINGS		124,900	\$6.00	\$749,400
REMOVE HAZARDOUS MATERIALS <sup>1</sup>				\$818,000
SITework				\$11,388,618
<b>SUB-TOTAL</b>	<b>Jul-22</b>	<b>124,200</b>	<b>\$504.36</b>	<b>\$62,641,715</b>
ESCALATION TO START DATE July 2022 - (assumed 3% PA) MIDPOINT IS INCLUDED IN THE UNIT RATES	1.25%			\$783,021
DESIGN AND PRICING CONTINGENCY	1.5%			\$939,626
<b>SUB-TOTAL</b>		<b>124,200</b>	<b>\$518.23</b>	<b>\$64,364,362</b>
GENERAL CONDITIONS/GR's	6.00%			\$3,861,862
BONDS	1.00%			\$643,644
INSURANCE	1.25%			\$804,555
PERMITS/FEES				waived
OVERHEAD + PROFIT	2.0%			\$1,393,488
<b>TOTAL CONSTRUCTION COST</b>		<b>124,200</b>	<b>\$572.21</b>	<b>\$71,067,911</b>

<sup>1</sup> Testing and monitoring costs are not included

**ALTERNATES (including markups)**

1 - Relocate existing PV panels	ADD	<b>\$500,000</b>
2 - Irrigation Well	ADD	<b>\$84,750</b>



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### **60% CD Estimate**

This 60% CD cost estimate was produced from drawings and narratives dated February 18, 2022, prepared by AI3 Architects and their design team.

This estimate includes all direct construction costs, general contractors overhead and profit and design contingency. Cost escalation assumes start dates indicated.

Bidding conditions are expected to be public bidding under 149 of the Massachusetts General Laws to pre-qualified general contractors, and pre-qualified sub-contractors, open specifications for materials and manufacturers.

The estimate is based on prevailing wage rates for construction in this market and represents a reasonable opinion of cost. It is not a prediction of the successful bid from a contractor as bids will vary due to fluctuating market conditions, errors and omissions, proprietary specifications, lack or surplus of bidders, perception of risk, etc. Consequently the estimate is expected to fall within the range of bids from a number of competitive contractors or subcontractors, however we do not warrant that bids or negotiated prices will not vary from the final construction cost estimate.

### **ITEMS NOT CONSIDERED IN THIS ESTIMATE**

Items not included in this estimate are:

- All professional fees and insurance
- Building Permit costs
- Land acquisition, feasibility, and financing costs
- All Furnishings, Fixtures and Equipment
- Items identified in the design as Not In Contract (NIC)
- Items identified in the design as by others
- Owner supplied and/or installed items (e.g. draperies, furniture and equipment)
- Rock excavation; special foundations (unless indicated by design engineers)
- Utility company back charges, including work required off-site
- Work to City streets and sidewalks, (except as noted in this estimate)



**CONSTRUCTION COST SUMMARY**

<i>BUILDING SYSTEM</i>		SubTotal	TOTAL	\$/SF	%
<b>A10 FOUNDATIONS</b>					
A1010	Standard Foundations	\$2,343,276			
A1020	Special Foundations				
A1030	Lowest Floor Construction	\$2,200,444	<b>\$4,543,720</b>	\$36.58	9.1%
<b>B10 SUPERSTRUCTURE</b>					
B1010	Upper Floor Construction	\$3,155,807			
B1020	Roof Construction	\$2,240,401	<b>\$5,396,208</b>	\$43.45	10.9%
<b>B20 EXTERIOR CLOSURE</b>					
B2010	Exterior Walls	\$4,889,630			
B2020	Windows	\$1,806,500			
B2030	Exterior Doors	\$245,412	<b>\$6,941,542</b>	\$55.89	14.0%
<b>B30 ROOFING</b>					
B3010	Roof Coverings	\$2,049,060			
B3020	Roof Openings	\$134,250	<b>\$2,183,310</b>	\$17.58	4.4%
<b>C10 INTERIOR CONSTRUCTION</b>					
C1010	Partitions	\$3,843,439			
C1020	Interior Doors	\$1,043,491			
C1030	Specialties/Millwork	\$1,492,468	<b>\$6,379,398</b>	\$51.36	12.8%
<b>C20 STAIRCASES</b>					
C2010	Stair Construction	\$390,500			
C2020	Stair Finishes	\$39,542	<b>\$430,042</b>	\$3.46	0.9%
<b>C30 INTERIOR FINISHES</b>					
C3010	Wall Finishes	\$1,057,186			
C3020	Floor Finishes	\$1,279,664			
C3030	Ceiling Finishes	\$1,884,353	<b>\$4,221,203</b>	\$33.99	8.5%
<b>D10 CONVEYING SYSTEMS</b>					
D1010	Elevator	\$224,000	<b>\$224,000</b>	\$1.80	0.5%
<b>D20 PLUMBING</b>					
D20	Plumbing	\$2,306,539	<b>\$2,306,539</b>	\$18.57	4.6%
<b>D30 HVAC</b>					
D30	HVAC	\$6,763,191	<b>\$6,763,191</b>	\$54.45	13.6%
<b>D40 FIRE PROTECTION</b>					
D40	Fire Protection	\$739,470	<b>\$739,470</b>	\$5.95	1.5%
<b>D50 ELECTRICAL</b>					
D5010	Service & Distribution	\$1,676,300			



Somerset Middle School  
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60% CD Estimate

GFA 124,200

**CONSTRUCTION COST SUMMARY**

<i>BUILDING SYSTEM</i>		SubTotal	TOTAL	\$/SF	%
D5020	Lighting & Power	\$1,551,739			
D5030	Communication & Security Systems	\$2,659,442			
D5040	Other Electrical Systems	\$290,000	<b>\$6,177,481</b>	\$49.74	12.4%
<b>E10</b>	<b>EQUIPMENT</b>				
E10	Equipment	\$1,897,663	<b>\$1,897,663</b>	\$15.28	3.8%
<b>E20</b>	<b>FURNISHINGS</b>				
E2010	Fixed Furnishings	\$1,481,930			
E2020	Movable Furnishings	NIC	<b>\$1,481,930</b>	\$11.93	3.0%
<b>F20</b>	<b>HAZMAT REMOVALS</b>				
F2010	Building Elements Demolition	\$0			
F2020	Hazardous Components Abatement	\$0	<b>\$0</b>	\$0.00	0.0%
<b>TOTAL DIRECT COST (Trade Costs)</b>			<b>\$49,685,697</b>	\$400.05	100.0%



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

**GROSS FLOOR AREA CALCULATION**

Lower Level	21,100
Main Level	78,000
Upper Level	25,100

<b>TOTAL GROSS FLOOR AREA (GFA)</b>	<b>124,200 sf</b>
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**A10 FOUNDATIONS**

**A1010 STANDARD FOUNDATIONS**

**033000 CONCRETE**

Strip Footings	441	CY
Foundation Walls	392	CY
Retaining Walls	346	CY
Spread Footings	722	CY
Piers	89	CY
Total Foundation Concrete	1,990	CY

Strip footings/Grade Beams

Formwork	4,714	sf	14.00	65,996
Re-bar	37,881	lbs.	2.00	75,762
Concrete material; 4,500 psi	441	cy	140.00	61,740
Placing concrete	441	cy	90.00	39,690

Foundation walls

Formwork	15,883	sf	18.00	285,894
Re-bar	35,737	lbs.	2.00	71,474
Concrete material; 4,500 psi	392	cy	140.00	54,880
Placing concrete	392	cy	90.00	35,280

Retaining Walls

Formwork	10,080	sf	20.00	201,600
Re-bar	45,360	lbs.	2.00	90,720
Concrete material; 4,500 psi	346	cy	140.00	48,440
Placing concrete	346	cy	90.00	31,140
Form shelf	360	lf	8.00	2,880

Column Footings

Formwork	10,352	sf	16.00	165,632
Re-bar	90,180	lbs.	2.00	180,360
Concrete material	722	cy	140.00	101,080
Concrete material; 4,500 psi	722	cy	90.00	64,980
Set anchor bolts grout plates	191	ea	165.00	31,515

Piers

Formwork	4,584	sf	22.00	100,848
Re-bar	7,564	lbs	2.00	15,128
Concrete material; 4,500 psi	89	cy	140.00	12,460
Placing concrete	89	cy	120.00	10,680

Miscellaneous

Elevator pit, complete	1	loc	35,000.00	35,000
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**070001 WATERPROOFING, DAMPPROOFING AND CAULKING**

Bituminous dampproofing at brick shelf	11,166	sf	3.00	33,498
Waterproofing retaining wall	7,560	sf	8.00	60,480

**072100 THERMAL INSULATION**

Insulation	12,484	sf	2.75	34,331
Insulation, 2" - to 4' inside perimeter	8,884	sf	2.75	24,431

**312000 EARTHWORK**



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GFA

124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

61	<u>Strip footings</u>						
62	Excavation	2,752	cy	14.00	38,528		
63	Reuse excess material on site	2,752	cy	15.00	41,280		
64	Backfill with imported material	1,573	cy	28.00	44,044		
65	<u>Spread footings</u>						
66	Excavation	3,521	cy	14.00	49,294		
67	Reuse excess material on site	3,521	cy	15.00	52,815		
68	Backfill with imported material	2,710	cy	28.00	75,880		
69	<u>Miscellaneous</u>						
70	Rock removal allowance	1	ls	50,000.00	NR		
71	Perimeter drain	2,221	lf	20.00	44,420		
72	Gravel fill beneath footings, 12"	728	cy	36.00	26,208		
73	Allowance for dewatering for foundation work	1	ls	20,000.00	20,000		
74	SUBTOTAL						2,343,276

**A1020 SPECIAL FOUNDATIONS**

77	No work in this section						
78	SUBTOTAL						-

**A1030 LOWEST FLOOR CONSTRUCTION**

81							
82	033000 CONCRETE						
83	<u>Slab on grade, 5" thick</u>	82,595	sf				
84	Vapor barrier, heavy duty, 15 mil	82,595	sf	1.00	82,595		
85	WWF reinforcement	94,984	sf	1.50	142,476		
86	Concrete - 5" thick; 4,500 psi	1,336	cy	135.00	180,360		
87	Placing concrete	1,336	cy	55.00	73,480		
88	Finishing and curing concrete	82,595	sf	2.75	227,136		
89	Sawcut full depth control joints	82,595	sf	0.22	18,171		
90	Premium for auditorium slopes	1	ls	30,000.00	30,000		
91	<u>Miscellaneous</u>						
92	Moisture mitigation admixture						NIC
93	Equipment pads	1	ls	10,000.00	10,000		
94							
95	072100 THERMAL INSULATION						
96							
97	312000 EARTHWORK						
98	<u>Building Earthwork</u>						
99	Gravel fill, 12"	3,059	cy	36.00	110,124		
100	Under slab drainage	41,298	sf	3.00	123,894		
101	Cut	2,900	cy	8.00	23,200		
102	Cut - over excavated 3' of fill beneath building	10,400	cy	8.00	83,200		
103	Rock removal	650	cy	225.00	146,250		
104	Fill - import structural - 25% swell	15,000	cy	32.00	480,000		
105	Load excess soils for disposal	13,300	cy	2.50	33,250		
106	Less than RCS-1 site disposal 1.65x	21,945	tn	18.00	395,010		
107	Plumbing E&B	82,595	sf	0.50	41,298		
108	SUBTOTAL						2,200,444

<b>TOTAL - FOUNDATIONS</b>						<b>\$4,543,720</b>
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**A20 BASEMENT CONSTRUCTION**

**A2010 BASEMENT EXCAVATION**

116	No work in this section						
117	SUBTOTAL						

**A2020 BASEMENT WALLS**



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GFA 124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

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No work in this section  
SUBTOTAL

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**TOTAL - BASEMENT CONSTRUCTION**

**B10 SUPERSTRUCTURE**

		827	tns				
<b>B1010</b>	<b>FLOOR CONSTRUCTION</b>	13.32	lbs/gsf				
033000	CONCRETE						
	Concrete on Metal Deck						
	WWF reinforcement	47,846	sf	1.50	71,769		
	Concrete fill to metal deck; normal weight, 4-1/2" thick	665	cy	135.00	89,775		
	Moisture mitigation admixture					NIC	
	Place and finish concrete	41,605	sf	2.50	104,013		
	Rebar to decks	12,482	lbs	2.00	24,964		
051200	STRUCTURAL STEEL FRAMING						
	Beams; w-sections	204	tns	4,900.00	999,600		
	Beams; HSS	27	tns	4,900.00	132,300		
	Columns; HSS	155	tns	4,900.00	759,500		
	Bracing; HSS	65	tns	4,900.00	318,500		
	Additional steel	75	tns	4,900.00	367,500		
	Shear studs	9,246	ea	3.50	32,361		
	2" Metal galvanized floor deck	41,605	sf	5.00	208,025		
	Moment connections	15	ea	500.00	7,500		
	Full weld	40	ea	500.00	20,000		
078100	FIREPROOFING/FIRESTOPPING						
	Firestopping	1	ls	20,000.00	20,000		
	Fireproofing	41,605	sf	2.50	NR		
	SUBTOTAL						3,155,807
<b>B1020</b>	<b>ROOF CONSTRUCTION</b>						
033000	CONCRETE						
	RTU						
	WWF reinforcement	6,555	sf	1.50	9,833		
	Concrete fill to metal deck; normal weight, 7" thick	142	cy	135.00	19,170		
	Place and finish concrete	5,700	sf	2.50	14,250		
	Rebar to decks	1,710	lbs	2.00	3,420		
051200	STRUCTURAL STEEL FRAMING						
	Beams; w-sections	248	tns	4,900.00	1,215,200		
	Beams; HSS	9	tns	4,900.00	44,100		
	Joists	44	tns	4,900.00	215,600		
	Shear studs	1,267	ea	3.50	4,435		
	3" Metal galvanized roof deck	83,500	sf	6.00	501,000		
	Premium for acoustic deck at gym	8,325	sf	6.50	54,113		
	Moment connections	13	ea	500.00	6,500		
	Canopy structure						
	Steel framing - beams/columns, 14 PSF	14	tns	4,900.00	68,600		
	1-1/2" Metal galvanized roof deck	2,040	sf	4.50	9,180		
	Expansion joint	1	ls	50,000.00	50,000		





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124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

176	061000	ROUGH CARPENTRY						
177								
178	078100	FIREPROOFING/FIRESTOPPING						
179		Fireproofing - specific locations only, allow	1	ls	25,000.00	25,000		
180		SUBTOTAL					2,240,401	
181								
182	<b>TOTAL - SUPERSTRUCTURE</b>							<b>\$5,396,208</b>
183								
184								
185	<b>B20</b>	<b>EXTERIOR CLOSURE</b>	63,150	SF				
186								
187	<b>B2010</b>	<b>EXTERIOR WALLS</b>	50,910	SF				
188								
189	042000	MASONRY						
190		Brick, modular	13,050	sf	37.00	482,850		
191		Stone veneer, thin veneer, fieldstone cut	6,200	sf	70.00	434,000		
192		Precast sill @ water table	500	sf	60.00	30,000		
193		Precast type 1, 7-1/4" x 3-5/8"	555	lf	60.00	33,300		
194		Precast type 2, 6" x 3-5/8"	200	lf	60.00	12,000		
195		Precast type 3, 7-1/4" x 3-5/8"	615	lf	60.00	36,900		
196		Staging/Lifts to exterior wall	63,150	sf		In rates		
197								
198	052000	MISC. METALS						
199		Miscellaneous metals	19,250	sf	1.00	19,250		
200								
201	070001	WATERPROOFING, DAMPPROOFING AND CAULKING						
202		Air and vapor barrier	50,910	sf	7.00	356,370		
203		AVB at window openings	6,400	lf	5.00	32,000		
204		AVB at soffit	5,740	sf	7.00	40,180		
205		AVB at columns	754	sf	7.00	5,278		
206		Miscellaneous sealants	69,644	sf	0.50	34,822		
207								
208	076400	CLADDING						
209		GFRP - vertical face	6,040	sf	60.00	362,400		
210		GFRP trim piece, at roof edge	2,940	sf	70.00	205,800		
211		GFRP column cladding, round	754	sf	70.00	52,780		
212		GFRP soffit	570	sf	60.00	34,200		
213		PVC soffit	3,145	sf	50.00	157,250		
214		Mineral fiber cement panel	9,330	sf	35.00	326,550		
215		Mineral fiber cement panel; smooth	13,350	sf	35.00	467,250		
216		Linear metal soffit	2,025	sf	45.00	91,125		
217		Roof screen panels; louvered				NIC		
218		Mockup	1	ls	50,000.00	50,000		
219								
220	072100	THERMAL INSULATION						
221		Insulation, 2-1/2" nailbase (sheathing + insulation)	50,910	sf	6.00	305,460		
222		Glass fiber insulation, 6"	50,910	sf	4.00	203,640		
223		Insulation at window openings	6,400	lf	2.50	16,000		
224		Insulation at soffit	5,740	sf	6.00	34,440		
225		Insulation at columns	754	sf	6.00	4,524		
226								
227	092900	GYPSON BOARD ASSEMBLIES						
228		CFMS; 6"-12"	50,910	sf	14.00	712,740		
229		GWB lining	50,910	sf	3.50	178,185		
230		Framing at soffit	5,740	sf	20.00	114,800		
231		Framing at columns	754	sf	20.00	15,080		
232								



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<b>NEW CONSTRUCTION</b>							
233	090007 PAINTING						
234	Paint to GFRP	10,304	sf	1.50	15,456		
235							
236	101400 SIGNAGE						
237	Building signage, allow	1	ls	25,000.00	25,000		
238	SUBTOTAL					4,889,630	
239							
240	<b>B2020 WINDOWS</b>	12,240	SF				
241							
242	061000 ROUGH CARPENTRY						
243	Wood blocking at openings	6,400	lf	12.00	76,800		
244							
245	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
246	Backer rod & double sealant	6,400	lf	10.00	64,000		
247							
248	080001 WINDOWS						
249	Aluminum windows/storefront	8,840	sf	95.00	839,800		
250	Premium for openings, allow	1	ls	50,000.00	50,000		
251	Curtainwall, Aluminum	3,400	sf	125.00	425,000		
252	Premium for Security glass	3,840	sf	40.00	153,600		
253	Premium for Ballistic glass	300	sf	120.00	36,000		
254	Sunscreens						
255	Vertical, perforated metal; A3.22A						
256	A1, 3' x 8'	10	ea	1,760.00	17,600		
257	Horizontal, louvered; A3.22B						
258	B1, 1' deep	280	lf	120.00	33,600		
259	B2, 1'-6" deep	145	lf	160.00	23,200		
260	B3, 2' deep	475	lf	180.00	85,500		
261							
262	089000 LOUVERS						
263	Aluminum louvers - allowance	20	sf	70.00	1,400		
264	SUBTOTAL					1,806,500	
265							
266	<b>B2030 EXTERIOR DOORS</b>						
267							
268	061000 ROUGH CARPENTRY						
269	Wood blocking at openings	222	lf	11.00	2,442		
270							
271	079200 JOINT SEALANTS						
272	Backer rod & double sealant	222	lf	10.00	2,220		
273							
274	081110 HOLLOW METAL						
275	<u>Thermally insulated and galvanized</u>						
276	Frames, single	6	ea	450.00	2,700		
277	Frames, double	3	ea	450.00	1,350		
278	Type F; Flush HM door	12	leaf	500.00	6,000		
279							
280	080001 WINDOWS						
281	Glazed aluminum entrance doors including frame and hardware; single	7	ea	4,500.00	31,500		
282	Glazed aluminum entrance doors including frame and hardware; double	17	pr	9,000.00	153,000		
283							
284	083500 OVERHEAD DOORS						
285	Overhead coiling door, 10' x 10'; OHC1	1	ea	7,000.00	7,000		
286	Overhead doors, 8' x 10'; OHC	1	ea	5,600.00	5,600		
287							
288	087100 DOOR HARDWARE						
289	Hardware	12	leaf	1,600.00	19,200		



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**NEW CONSTRUCTION**

290	Auto opener, allow	3	ea	4,000.00	12,000			
291								
292	090007 PAINTING							
293	Finish doors and frames	12	ea	200.00	2,400			
294	SUBTOTAL					245,412		
295								
296	<b>TOTAL - EXTERIOR CLOSURE</b>							<b>\$6,941,542</b>

**B30 ROOFING**

**B3010 ROOF COVERINGS**

302	061000 ROUGH CARPENTRY						
303							
304	Rough blocking	16,560	lf	8.00	132,480		
305							
306	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
307	AVB at roof perimeter	4,140	lf	8.00	33,120		
308							
309	070002 ROOFING AND FLASHING						
310	Flat Roof						
311	PVC membrane roofing system	83,500	sf	19.00	1,586,500		
312	Membrane to canopies	2,040	sf	14.00	28,560		
313	Miscellaneous Roofing						
314	Roof edge/Fascia	4,140	lf	40.00	165,600		
315	Aluminum fascia at canopy entrances	1,440	sf	40.00	57,600		
316	Walk pads	5,040	sf	5.00	25,200		
317	Roof ladders	1	ls	20,000.00	20,000		
318	SUBTOTAL					2,049,060	

**B3020 ROOF OPENINGS**

321							
322	086300 ROOF SKYLIGHTS + HATCHES						
323	Skylights	954	sf	125.00	119,250		
324	Elevator vent	1	ea	3,000.00	3,000		
325	Roof access hatch	4	ea	3,000.00	12,000		
326	SUBTOTAL					134,250	

**TOTAL - ROOFING**

**\$2,183,310**

**C10 INTERIOR CONSTRUCTION**

**C1010 PARTITIONS**

334	042000 MASONRY	4,731	sf				
335							
336	D; 6" CMU	1,206	sf	26.00	31,356		
337	E2; 8" CMU	3,525	sf	28.00	98,700		
338							
339	055000 MISCELLANEOUS METALS						
340	Seismic clips	89	ea	140.00	12,460		
341	Misc. metals to CMU	4,731	sf	1.00	4,731		
342	Support at gym curtain, allowance	1	ls	7,500.00	7,500		
343	Support at operable and folding partitions	158	lf	120.00	18,960		
344							
345	061000 ROUGH CARPENTRY						
346	Wood blocking at interiors	124,200	sf	0.50	62,100		
347	Rough blocking	10,370	lf	3.00	31,110		



60% CD Estimate

GFA

124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>NEW CONSTRUCTION</b>							
349	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
350	Miscellaneous sealants at partitions	124,200	sf	0.50	62,100		
351							
352	080001 WINDOWS						
353	Interior curtainwall	964	sf	100.00	96,400		
354	Interior storefront	1,555	sf	80.00	124,400		
355	Transaction window at administration; Level 3 bullet resistance	165	sf	150.00	24,750		
356	Sliding glass window at Admin	1	ls	9,000.00	9,000		
357							
358	080002 GLASS AND GLAZING						
359	Borrowed lights	857	sf	38.00	32,566		
360	Premium for 2 hour rated glazing	360	sf	275.00	99,000		
361							
362	081113 HM DOORS AND FRAMES						
363	Borrowed lights	857	sf	30.00	25,710		
364							
365	092900 GYPSUM BOARD ASSEMBLIES	152,129	sf				
366	Type F3 - 3 5/8" metal stud w/ 2 layer 5/8" each side, insulation	1,091	sf	19.00	20,729		
367	Type F6 - 6" metal stud w/ 2 layer 5/8" each side, insulation	998	sf	19.50	19,461		
368	Type F23 - 2 layers 3 5/8" metal stud w/ 2 layer 5/8" each side, 2 layers insulation	4,469	sf	27.00	120,663		
369	Type G3 - 3 5/8" metal stud w/ 1 layer 5/8" each side, insulation	15,428	sf	15.50	239,134		
370	Type G6 - 6" metal stud w/ 1 layer 5/8" each side, insulation	4,190	sf	16.00	67,040		
371	Type GI6 - 6" metal stud w/ 1 layer 1/2" fire retardant plywood, 1 layer impact resistant GWB one side, insulation	798	sf	17.25	13,766		
372	Type GI7 - 8" metal stud w/ 1 layer 1/2" fire retardant plywood, 1 layer impact resistant GWB one side, insulation	1,663	sf	18.75	31,181		
373	Type GF3 - 3-5/8" stud w/ 1 layers 5/8", insulation	30,324	sf	11.75	356,307		
374	Type GF4 - 3-5/8" stud w/ 2 layers 5/8", insulation	8,778	sf	13.50	118,503		
375	Type GF5 - 6" stud w/ 1 layers 5/8", insulation	8,978	sf	12.25	109,981		
376	Type GF6 - 6" stud w/ 2 layers 5/8", insulation	2,793	sf	14.00	39,102		
377	Type GA3 - 3 5/8" metal stud w/ 2 layers 5/8" b/s; acoustic batt insulation.	5,520	sf	19.00	104,880		
378	Type GA4 - 3 5/8" metal stud w/ 2 layers 5/8" o/s, 1 layer o/s; acoustic batt insulation.	16,226	sf	17.25	279,899		
379	Type GA6- 6" metal stud w/ 2 layers 5/8" b/s; acoustic batt insulation.	1,596	sf	19.50	31,122		
380	Type GA7 - 6" metal stud w/ 2 layers 5/8" o/s, 1 layer o/s; acoustic batt insulation.	10,507	sf	17.75	186,499		
381	Type GB - 2 layers 3-5/8" metal stud w/ 1 layer 5/8" both sides, insulation in both studs	27,132	sf	23.50	637,602		
382	Type GIB - 2 layers 3-5/8" metal stud w/ 1 layer 5/8" one side, 1 layer 1/2" fire retardant plywood, 1 layer impact resistant GWB one side, insulation in both studs	4,655	sf	28.50	132,668		
383	Type GD - 2 layers 3-5/8" metal stud w/ 2 layer 5/8" both sides, acoustical insulation in both studs	1,596	sf	27.00	43,092		
384	Type GP - 2 layers 3-5/8" metal stud w/ 2 layers 5/8" b/s, insulation in both studs	3,192	sf	27.00	86,184		
385	Type S2- 2 1/2"C-H stud w/ 1" shaft liner panel one side and 2 layer 5/8" gwb on the other side	2,195	sf	13.50	29,633		
386	Premium for angled walls at Auditorium	1,210	sf	25.00	30,250		
387	Premium for projection at Tech	600	sf	20.00	12,000		
388							
389	Interior staging	1	ls	30,000.00	30,000		
390							
391	102200 OPERABLE PARTITIONS						
392	Folding Partitions						
393	Fitness/Adaptive PE, 25' x 12', motorized	1	ea	36,000.00	36,000		



60% CD Estimate

GFA

124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>NEW CONSTRUCTION</b>							
394	Music/Auditorium, 56' x 16', motorized	1	ea	134,400.00	134,400		
395	Operable glass wall						
396	Project Room, 25' x 9'-6"	3	ea	47,500.00	142,500		
397	Operable panels						
398	Secondary lobby display panels, A9.17A	1	ls	50,000.00	50,000		
399	SUBTOTAL					3,843,439	
400							
401	<b>C1020 INTERIOR DOORS</b>						
402							
403	061000 ROUGH CARPENTRY						
404	Wood blocking at openings	3,389	lf	4.00	13,556		
405							
406	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
407	Backer rod & double sealant	3,389	lf	2.50	8,473		
408							
409	080002 GLASS AND GLAZING						
410	Sidelight glass	4,224	sf	38.00	160,512		
411							
412	081113 HM DOORS AND FRAMES						
413	Single	177	ea	450.00	79,650		
414	Double	19	ea	600.00	11,400		
415	Sidelight/sidelight	4,224	sf	30.00	126,720		
416							
417	081400 WOOD DOORS						
418	Flush door	230	ea	450.00	103,500		
419	premium for 1 glazed panel	4	ea	150.00	600		
420	premium for 2 glazed panels	23	ea	300.00	6,900		
421	premium for narrow lite	11	ea	120.00	1,320		
422	premium for acoustical gasketing, allow	1	ls	20,000.00	20,000		
423							
424	083100 ACCESS DOORS AND FRAMES						
425	Access doors	1	ls	10,000.00	10,000		
426							
427	080001 WINDOWS						
428	Glazed aluminum doors including frame and hardware; single door	4	ea	4,000.00	16,000		
429	Glazed aluminum doors including frame and hardware; double door	12	pr	8,000.00	96,000		
430	Glazed aluminum doors including frame and hardware; single door, 2 hour fire rated	4	ea	15,000.00	60,000		
431							
432	083510 SPECIALTY DOORS						
433	Overhead coiling grille at Student Dining, 17'-6" x 9'-10"; OHG1	2	ea	14,000.00	28,000		
434	Overhead counter coiling door at School Store, 4'-4" x 4'-4"; OHCC1	1	ea	6,480.00	6,480		
435	Overhead coiling door at Tech/Engineering, 8' x 9'; OHC2	1	ea	6,480.00	6,480		
436	Overhead glazed door at Tech/Engineering, 8' x 9'; OH3	2	ea	7,200.00	14,400		
437	Overhead glazed door at Media, 8' x 9'; OH1	1	ea	7,200.00	7,200		
438	Sliding barn door at Student Gear Storage, Metal; 6' x 9', Type F	1	ea	3,000.00	3,000		
439	Sliding glazed doors at Conference room, double, Type FF	1	pr	7,000.00	7,000		
440							
441	087100 DOOR HARDWARE						
442	Hardware	233	leaf	900.00	209,700		
443							
444	090007 PAINTING						
445	Finish doors and frames	233	ea	200.00	46,600		
446	SUBTOTAL					1,043,491	
447							



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

448	<b>C1030 SPECIALTIES / MILLWORK</b>						
449							
450	055000 MISCELLANEOUS METALS						
451	Railing at open to below areas, metal mesh infill panels	230	lf	350.00	80,500		
452	Wire mesh partition at student gear storage	24	lf	400.00	9,600		
453	Wire mesh door at student gear storage	4	ea	750.00	3,000		
454	Miscellaneous metals throughout building	124,200	sf	1.25	155,250		
455							
456	061000 ROUGH CARPENTRY						
457	Backer panels in electrical closets	1	ls	10,000.00	10,000		
458	Misc interior rough blocking includes shims and blocking at lockers	124,200	gfa	1.00	124,200		
459							
460	064100 INTERIOR ARCHITECTURAL WOODWORK						
461	1. Wood veneer casework.						
462	a. Circulation desk at Media Center. A9.33	13	lf	650.00	8,450		
463	a. Support brackets	13	lf	200.00	2,600		
464	c. Mailbox unit- library millwork surrounds A9.41	6	lf	1,200.00	7,200		
465	c. Mailbox unit- library millwork base cabinets A9.41	8	lf	650.00	5,200		
466	e. Library computer desk A12.25B	20	lf	1,500.00	30,000		
467	Student storage units, A9.14a with Shelves	8	ea	4,200.00	33,600		
468	Student storage units, A9.14a with no shelves	8	ea	6,300.00	50,400		
469	Locker room bench	4	ea	1,000.00	4,000		
470	Wood surrounds	100	sf	75.00	7,500		
471	Project area bench, 12" x 18"	75	lf	300.00	NIC		
472	Wood sills	1,743	lf	45.00	78,435		
473	Assembly stairs A8.83	190	sf	75.00	14,250		
474	Tech/Engineering - A10.01	1	loc	750.00	750		
475	Media center A10.22, A10.23	173	sf	65.00	11,245		
476	Mailboxes	108	ea	95.00	10,260		
477							
478	070001 WATERPROOFING, DAMPPROOFING AND CAULKING						
479	Miscellaneous sealants throughout building	4	sf	1.00	4		
480							
481	079500 EXPANSION CONTROL						
482	Expansion joint covers, allowance	1	ls	10,000.00	10,000		
483							
484	101100 VISUAL DISPLAY SURFACES	14,265	sf				
485	Sliding marker boards	3	loc	2,500.00	7,500		
486	Mb3.1 (15sf)	4	ea	300.00	1,200		
487	Mb3.2 (18sf)	3	ea	360.00	1,080		
488	Mb3.3 (22sf)	2	ea	440.00	880		
489	Mb4.1 (20sf)	20	ea	400.00	8,000		
490	Mb4.2 (26sf)	9	ea	520.00	4,680		
491	Mb5.1 (25sf)	21	ea	500.00	10,500		
492	Mb6.1 (30sf)	57	ea	600.00	34,200		
493	Mb8.1 (40sf)	73	ea	800.00	58,400		
494	Mb10.1 (50sf)	26	ea	1,000.00	26,000		
495	Tb2.1(10sf)	31	ea	200.00	6,200		
496	Tb3.1(6sf)	2	ea	120.00	240		
497	Tb3.2(11sf)	5	ea	220.00	1,100		
498	Tb3.3(15sf)	16	ea	300.00	4,800		
499	TB 4.1	2	ea	32.00	64		
500	Tb4.2(8sf)	1	ea	160.00	160		
501	Tb4.3(20sf)	6	ea	400.00	2,400		



60% CD Estimate

GFA 124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

502	Tb5.1(8sf)	59	ea	160.00	9,440		
503	Tb6.2(12sf)	8	ea	240.00	1,920		
504	Tb8.1(16sf)	112	ea	320.00	35,840		
505	Tb8.2(16sf)	10	ea	320.00	3,200		
506	Corridors and elsewhere	3,534	sf	20.00	70,680		
507							
508	101200 DISPLAY CASES						
509	Display cases 1/9.02A	1	ea	4,500.00	4,500		
510	Display cases 1/9.02B	3	ea	4,500.00	13,500		
511	Display cases 1/9.03C	1	ea	4,200.00	4,200		
512	Display cases 1/9.03D	2	ea	2,450.00	4,900		
513	Art display cases A10.11	2	ea	5,000.00	10,000		
514	Auditorium display cases	3	ea	3,500.00	10,500		
515							
516	101400 SIGNAGE						
517	Dedication plaque	1	ea	3,000.00	3,000		
518	Room Signs	225	ea	140.00	31,500		
519							
520	Vinyl graphics	1	ls	20,000.00	20,000		
521	Specialty signage	1	ls	50,000.00	50,000		
522							
523	102100 TOILET COMPARTMENTS						
524	Toilet Partitions; ADA	10	ea	2,000.00	20,000		
525	Toilet Partitions; regular	26	ea	1,800.00	46,800		
526	Toilet Partitions; urinal screens	2	ea	700.00	1,400		
527	Changing stalls	12	ea	2,000.00	24,000		
528							
529	102800 TOILET ACCESSORIES						
530	Gang bathrooms	10	rms	3,500.00	35,000		
531	Individual bathrooms	22	rms	1,500.00	33,000		
532	Janitors closet accessories	4	rms	300.00	1,200		
533							
534	104400 FIRE PROTECTION SPECIALTIES						
535	Fire extinguisher cabinets	41	ea	350.00	14,350		
536	Defibrillator cabinets , allow	2	ea	350.00	700		
537							
538	105000 LOCKERS						
539	Phenolic lockers - corridor	587	opes	350.00	205,450		
540	Phenolic lockers at engineering; 15" x 15" 4 tier	144	opes	150.00	FF&E		
541	Metal lockers at locker room; 5 tier	100	opes	120.00	12,000		
542	Custodian's Lockers, single tier	7	opes	220.00	1,540		
543	SUBTOTAL					1,492,468	

<b>TOTAL - INTERIOR CONSTRUCTION</b>	<b>\$6,379,398</b>
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**C20 STAIRCASES**

**C2010 STAIR CONSTRUCTION**

552	033000 CONCRETE						
553	Assembly seating steps	1	ls	15,000.00	15,000		
554	Concrete to stairs	5	flt	2,500.00	12,500		
555							
556	055000 MISCELLANEOUS METALS						
557	Assembly seating steps	1	ls	125,000.00	125,000		
558	Assembly stair	1	flt	25,000.00	25,000		



60% CD Estimate

GFA 124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

559	Stair 1	2	flt	40,000.00	80,000		
560	Stair 2	2	flt	65,000.00	130,000		
561	Steps to stage	2	loc	1,500.00	3,000		
562	SUBTOTAL					390,500	

**C2020 STAIR FINISHES**

564	<b>C2020 STAIR FINISHES</b>						
565	<i>064100 INTERIOR ARCHITECTURAL WOODWORK</i>						
566	Wood flooring at forum stairs/steps - treads, risers and landing	610	sf	35.00	21,350		
568	<i>090005 RESILIENT FLOORS</i>						
569	Rubber tread/riser	486	lf	22.00	10,692		
571	<i>090007 PAINTING</i>						
572	Paint to stairs	5	flt	1,500.00	7,500		
573	SUBTOTAL					39,542	

<b>TOTAL - STAIRCASES</b>						<b>\$430,042</b>
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**C30 INTERIOR FINISHES**

**C3010 WALL FINISHES**

582	<i>055000 MISCELLANEOUS METALS</i>						
583	Perforated metal panel at assembly stairs	891	sf				
584	Perforated metal panel at auditorium	191	sf	60.00	11,460		
585		700	sf	60.00	42,000		
586	<i>064100 INTERIOR ARCHITECTURAL WOODWORK</i>						
587	Plastic laminate panels	2,621	sf				
588	Wood panels at classroom entries	962	sf	35.00	33,670		
589	Wood panels at corridor 1/9.02B	576	sf	70.00	40,320		
590	Wood panels at corridor 1/9.03C	50	sf	70.00	3,500		
591	Wood panels at corridor 1/9.03D	200	sf	70.00	14,000		
592	Wood panels at corridor 1/9.03D	150	sf	70.00	10,500		
593	Wood panels at corridor 1/9.05A	58	sf	70.00	4,060		
594	Auditorium	625	sf	70.00	43,750		
595	<i>090002 TILE</i>						
596	Bathroom, individual; full height at wet wall- see drawing and finish schedule replaced with epoxy paint and vinyl	10,003	sf				deleted
597	Bathroom, gang; wainscot height at wet walls- deleted see drawings and finish schedule. Replaced with epoxy and vinyl						deleted
598	Corridor tile is include behind lockers see A7.63. See elevations for various heights	10,003	sf	26.00	260,078		
599	<i>097216 RIGID VINYL WALL CLADDING</i>						
600	Rigid vinyl cladding in bathrooms	2,792	sf				
601	Rigid vinyl cladding in showers (4ea)	2,456	sf	14.00	34,384		
602		336	sf	14.00	4,704		
603	<i>090003 ACOUSTICAL TILE</i>						
604	ACT at corridors - A9.02B	475	sf		-		
605	ACT at corridors - A9.03C	320	sf	50.00	16,000		
606		155	sf	50.00	7,750		
607	<i>098400 SOUND ABSORBING PANELS</i>						
608	Media center	9,471	sf				
609							
610							





60% CD Estimate

GFA

124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>NEW CONSTRUCTION</b>							
611	Fabric wrapped acoustical wall panels, Type 1-Basis of Design: HIR (high impact resistant) Reflect panels by Sound Concepts or approved equal	961	sf	40.00	38,440		
612	Fabric wrapped acoustical wall panels, Type 3. Basis of Design: HIR (high impact resistant) Reflect panels by Sound Concepts or approved equal.	343	sf	40.00	13,720		
613	Staging/access					included	
614	Student dining						
615	Type 1 ,2,3 felt panels.	620	sf	30.00	18,600		
616	Staging/access					included	
617	Engineering						
618	Type 1 ,2,3 felt panels.	2,654	sf	30.00	79,620		
619	Soffit	294	sf	50.00	14,700		
620	Staging/access					included	
621	Gym						
622	Tectum- Tectum "Finale - Fabri-Tough" wall panels or approved equal.	3,067	sf	20.00	61,340		
623	Band rooms & auditorium						
624	Vinyl covered acoustical wall panels, Type 2- Basis of Design: LFT (low frequency tuner) panel by Sound Concepts or approved equal. Panel thickness: 2 inches	1,532	sf	30.00	45,960		
625							
626	090007 PAINTING						
627	Paint to GWB	238,913	sf	0.70	167,239		
628	Epoxy paint in bathrooms	10,736	sf	3.00	32,208		
629	Vinyl wall covering	960	sf	15.00	14,400		
630	Prep & prime of substrate surfaces	960	sf	2.00	1,920		
631	7. Interior wood trim and paneling.	2,621	sf	3.00	7,863		
632	11. Paint misc metals	1	ls	35,000.00	35,000		
633							
634	SUBTOTAL						1,057,186
635							
636	<b>C3020 FLOOR FINISHES</b>						
637							
638	033000 CONCRETE						
639	Painted concrete	6,789	sf	3.00	20,367		
640	03 35010 Polished concrete	8,137	sf	12.00	97,644		
641	03 35010 Polished concrete-Temp Plywood protection	8,137	sf	3.00	24,411		
642							
643	090002 TILE	3,513	sf				
644	Quarry tile @ kitchen					deleted	
645	Porcelain tile @ bathrooms	3,513	sf	30.00	105,390		
646	Waterproofing and crack suppression	3,513	sf	8.00	28,104		
647	Porcelain tile base	1,342	lf	22.00	29,524		
648	Thresholds	32	ea	100.00	3,200		
649	Premium for epoxy grout as per spec	3,513	sf	2.00	7,026		
650	Schluter's/metal edge trims	1	ls	5,000.00	5,000		
651	Sealants and caulking to tile areas					included	
652	Moisture mitigation	3,513	sf			excluded	
653							
654	090005 RESILIENT FLOORS	74,084	sf				
655	Rubber base	11,100	lf	4.00	44,400		
656	RSF-096516 resilient	51,548	sf	6.25	322,175		
657	RSF-096516 resilient @corridors	20,196	sf	6.25	126,225		
658	RA 096523 Rubber flooring	1,807	sf	12.00	21,684		
659	SCRF 096536 Static control resilient flooring	533	sf	16.00	8,528		



60% CD Estimate

GFA

124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>NEW CONSTRUCTION</b>							
660	General Flooring Adhesives: High moisture resistant and alkali resistant adhesive	74,084	sf	0.75	55,563		
661	Transition strips	1	ls	25,000.00	25,000		
662	Moisture mitigation	3,513	sf		excluded		
663							
664	096700 RESINOUS FLOORING	3,629	sf				
665	Resinous- apply slurry-applied urethane cement composition flooring with slip resistant broadcast, anti-microbial additive and an integral base						
666	UCF-1	1,897	sf	16.00	30,352		
667	UCF-2	1,732	sf	16.00	27,712		
668							
669	096800 TILE CARPETING	11,671	sf				
670	Carpet tile incl 15% waste	8,972	sf	5.50	49,346		
671	Carpet @ Auditorium broadloom incl 15% waste. See A7.03 and A10.51A for scope	4,449	sf	6.50	28,919		
672	Transition strips	1	ls	5,000.00	5,000		
673	Moisture mitigation	11,671	sf		excluded		
674							
675	096560 ATHLETIC FLOORING	8,244	sf				
676	WAF wood athletic flooring	6,446	sf	23.00	148,258		
677	Paint all field colors, game lines, borders and school logos and stenciled lettering	6,446	sf	2.00	12,892		
678	Stage floor	1,798	sf	22.00	39,556		
679	Paint stage floor- sand , stain	1,798	sf	6.00	10,788		
680	Ventilating cove base	325	lf	8.00	2,600		
681	Moisture mitigation	8,244	sf		excluded		
682	SUBTOTAL					1,279,664	
683							
684	<b>C3030 CEILING FINISHES</b>						
685							
686	064100 INTERIOR ARCHITECTURAL WOODWORK						
687	Wood soffit, horizontal	1,351	sf	65.00	87,815		
688	Wood soffit, vertical	630	sf	70.00	44,100		
689							
690	090003 ACOUSTICAL TILE						
691	As per specification	84,081	sf				
692	Type ACT-1 ceiling panels. 24 inches by 24 inches by 3/4 inch thick.	11,595	sf	7.00	81,165		
693	Type ACT-2 ceiling panels.24 inches by 48 inches by 3/4 inch thick	34,798	sf	6.50	226,187		
694	Type ACT-3A ceiling panels. Panel size: 24 inches by 72 inches by 3/4 inch thick	6,303	sf	9.00	56,727		
695	Type ACT-3B ceiling panels (installed as Running Bond Grid). Panel size: 24 inches by 72 inches by 3/4 inch thick	281	sf	11.00	3,091		
696	Type ACT-4 ceiling panels. Panel size: 12 inches by 72 inches by 3/4 inch thick	8,171	sf	9.50	77,625		
697	Type ACT-5 ceiling panel (Wet locations as scheduled).Panel size: 24 by 48 inch by 5/8 inch thick	6,540	sf	5.00	32,700		
698	Type ACT-6 Ceiling panel. Panel size: 24 by 72 inch by 3/4 inch thick	1,046	sf	11.00	11,506		
699	Type ACT-7 Ceiling panel. Panel size: 24 by 24 inch by 3/4 inch thick	1,760	sf	9.00	15,840		
700	Type ACT-8 ceiling panels. Panel Size: 24 inches by 48 inches by 1 inch	501	sf	9.00	4,509		
701	Type ACT-9 not called out on spec but shown on A2.23- allowance	4,100	sf	25.00	102,500		
702	Type ACT-11A wood non-perforated panel ceiling system. Panel size: 24 by 72 inch by 3/4 inch thick auditorium clouds	1,142	sf	75.00	85,650		
703	Type ACT-11A wood non-perforated panel ceiling system. Panel size: 24 by 72 inch by 3/4 inch thick running bond	2,075	sf	62.00	128,650		



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

704	Type ACT-11B wood non-perforated panel ceiling system (running bond): Panel size: 24 by 72 inch by 3/4 inch thick					in above	
705	Type ACT-12 wood veneer panel system. Panel size: 96 inches by 5-1/4 inches by 3/4 inch thickness	1,663	sf	50.00	83,150		
706	Type ACT-13 wood grille system, with acoustical infill backer. Size: 12 by 96 inch by 3-3/4 inch thick, having 4 slats per panel.	588	sf	45.00	26,460		
707	Type ACT-14 wood grille system, without acoustical backer. Size: 12 by 96 inch by 3-3/4 inch thick, having 4 slats per panel					in above drawings do not distinguish	
708	Type ACT-21 metal panel system. Panel size: 24 inches wide by 96 inches long by 5/8 inch high with 1-1/4 inch reveal	2,217	sf	50.00	110,850		
709	Type ACT-22 ceiling panels. Panel size: 10 inches wide by 8 feet long by 5/8 inch high with 1-1/4 inch reveal					with façade soffits	
710	Type ACT-23 open grid ceiling system- as per spec	1,301	sf	30.00	39,030		
711	Armstrong: Axiom Interlude Trim or approved equal.						
712	Provide scaffolds, staging, and other similar raised platforms, required to access their Work	1	ls	35,000.00	35,000		
713	Axion/perimeter trim allowance	1	ls	25,000.00	25,000		
714	Acoustical panel reflective	75	ea	150.00	11,250		
715	Wall ACT					with wall finishes	
716							
717	072129 SPRAY ON SOUND INSULATION	5,411	sf		-		
718	SSA at exp ceiling areas - nrc of 0.75 RM008	854	sf	8.00	6,832		
719	SSA at exp ceiling areas - nrc of 0.75 RM108	856	sf	8.00	6,848		
720	SSA at act ceiling areas - nrc of 0.75 RM198A,B		sf	8.00			
721	SSA at exp ceiling areas - nrc of 0.75 RM208	864	sf	8.00	6,912		
722	SSA at exp ceiling areas - nrc of 0.75 RM251-3	2,837	sf	8.00	22,696		
723	Provide scaffolds, staging, and other similar raised platforms, required to access their Work					included	
724							
725	090007 PAINTING						
726	Paint GWB	10,740	sf	0.90	9,666		
727	Paint soffits	15,682	sf	0.90	14,114		
728	Paint exposed structure	6,998	sf	2.00	13,996		
729	Paint exposed structure above finish ceiling/clouds	15,273	sf	2.00	30,546		
730	Misc pipe painting/identification colors	1	ls	25,000.00	25,000		
731	Paint exposed structure at gym and auditorium	7,444	sf	2.00	14,888		
732	Provide scaffolds, staging, and other similar raised platforms, required to access their Work	1	ls			included	
733							
734	092900 GYPSUM BOARD ASSEMBLIES	10,740	sf		-		
735	GWB ceilings and horizontal soffits	9,421	sf	13.00	122,473		
736	GWB ceilings, 2 hour rated	755	sf	15.00	11,325		
737	GWB ceilings stair soffits	564	sf	14.00	7,896		
738	Vertical soffits GWB/ACT up to 24"	1,458	lf	30.00	43,740		
739	Detail 9/7.63 LGMF, SAB, GWB- at wood soffit	337	lf	96.00	32,352		
740	Detail 9/7.64 LGMF, SAB, GWB at soffit above slide marker boards	46	lf	96.00	4,416		
741	Detail 9/2.32 LGMF, SAB, GWB at soffit	225	lf	72.00	16,200		
742	Detail 1/7.61 LGMF, SAB, GWB at soffit	15	lf	60.00	900		
743	Detail 1/7.69 LGMF, SAB, GWB at soffit	140	lf	240.00	33,600		
744	Detail 2/7.74 LGMF, SAB, GWB at soffit	78	lf	48.00	3,744		
745	Detail 4/2.34 LGMF, GWB at soffit -5'0" high, bracing studs	11	lf	130.00	1,430		
746	Detail 4/2.34 LGMF, GWB at soffit -9'0" high, bracing studs	90	lf	234.00	21,060		
747	Detail 4/2.34 LGMF, GWB at soffit -7'0" high, bracing studs	38	lf	234.00	8,892		
748	Detail 6/2.34 LGMF bracing studs	435	sf	14.00	6,090		



60% CD Estimate

GFA

124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

749	Detail 8/2.34 LGMF, GWB at soffit -7'0" high, bracing studs	80	lf	156.00	12,480		
750	Detail 2/7.70 LGMF, GWB soffits at sloped	190	lf	210.00	39,900		
751	Provide scaffolds, staging, and other similar raised platforms, required to access their Work	1	ls	15,000.00	15,000		
752	<u>Misc</u>						
753	Insulation at premier above mechanical grills 7/2.31	1,959	lf	3.00	5,877		
754	Acoustical barrier ceiling at tech engineering detail 8/2.31	1,211	sf	25.00	30,275		
755							
756	055000 MISCELLANEOUS METALS						
757	Misc metals at ceilings						with misc. allowance
758	Pipe grid	352	lf	75.00	26,400		
759	SUBTOTAL						1,884,353

<b>TOTAL - INTERIOR FINISHES</b>							<b>4,221,203</b>
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**D10 CONVEYING SYSTEMS**

**D1010 ELEVATOR**

767							
768	055000 MISCELLANEOUS METALS						
769	Pit ladder and sump pit cover	1	ea	3,000.00	3,000		
770	Sill angle	40	lf	25.00	1,000		
771							
772	142424 ELEVATOR						
773	Passenger elevator; 4 stop	1	ea	220,000.00	220,000		
774	SUBTOTAL						224,000

<b>TOTAL - CONVEYING SYSTEMS</b>							<b>\$224,000</b>
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**D13 SPECIAL CONSTRUCTION**

**D1313 SPECIAL CONSTRUCTION**

781	No work in this section						
782	SUBTOTAL						-

<b>TOTAL - SPECIAL CONSTRUCTION</b>							
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**D20 PLUMBING**

**D20 PLUMBING, GENERALLY**

789	<u>Equipment</u>						
790	Gas-fired water heaters GWH-1,2	2	ea	22,500.00	45,000		
791	Non-potable water heater NPWH-1	1	ea	15,000.00	15,000		
792	Hot water circulator pumps RP-1. RP-2	2	ea	1,300.00	2,600		
793	Mixing valves MV-1, MV-2	2	ea	4,800.00	9,600		
794	Expansion tank	2	ea	450.00	900		
795	Water meter assembly	1	ea	3,000.00	3,000		
796	Domestic water booster system BP-1	1	ea	20,000.00	20,000		
797	Main reduced pressure backflow preventer. 4"	1	ea	9,000.00	9,000		
798	RP backflow preventer, 2"	1	ea	1,000.00	1,000		
799	RP backflow preventer, 1-1/2"	2	ea	500.00	1,000		
800	Elevator sump pump SP-1	1	ea	3,800.00	3,800		
801	Oil separator OS-1	1	ea	3,500.00	3,500		
802	Connection to gas meter	1	ea	1,400.00	1,400		
803	Interior grease interceptor GI-1	2	ea	3,500.00	7,000		



60% CD Estimate

GFA

124,200

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<b>NEW CONSTRUCTION</b>							
804	Exterior grease interceptor GI-2	1	ea	15,000.00	15,000		
805	Lab waste neutralization system	1	ea	25,000.00	25,000		
806	Compressed air system	1	ls	20,000.00	20,000		
807	Rough-in & connection to kitchen equipment	1	ls	10,000.00	10,000		
808	<u>Plumbing Fixtures &amp; Specialties</u>						
809	Water closet WC-1, WC-2	50	ea	1,550.00	77,500		
810	Urinal UR-1, UR-2	10	ea	1,600.00	16,000		
811	Lavatory L-1, L-2	51	ea	1,275.00	65,025		
812	Sink SK-1	33	ea	1,300.00	42,900		
813	Science Sink SK-2 (faucet and trim only)	44	ea	1,000.00	44,000		
814	Science Sink SK-3 (faucet and trim only)	9	ea	1,000.00	9,000		
815	Sink SK-4	3	ea	1,300.00	3,900		
816	Sink SK-5	1	ea	1,300.00	1,300		
817	Art Sink SK-6 (faucet, trim and trap only)	2	ea	1,450.00	2,900		
818	Sink SK-7	3	ea	1,450.00	4,350		
819	Sink SK-8	3	ea	1,300.00	3,900		
820	Art Sink SK-9 (faucet, trim and trap only)	2	ea	1,450.00	2,900		
821	Shower SH-1	4	ea	3,600.00	14,400		
822	Mop service basin MSB-1	5	ea	1,150.00	5,750		
823	Electric water cooler EWC-1	8	ea	3,850.00	30,800		
824	Utility sink US-1	1	ea	1,100.00	1,100		
825	Emergency shower/eyewash ES-1	7	ea	2,800.00	19,600		
826	Emergency eyewash EEW-1	4	ea	1,100.00	4,400		
827	Ice maker connection IM-1, IM-2	11	ea	325.00	3,575		
828	Dishwasher connection DW-1	5	ea	325.00	1,625		
829	Washer outlet box WM-1	3	ea	350.00	1,050		
830	Compressed air turret connection GT-1	50	ea	100.00	5,000		
831	Roof drain RD-A	46	ea	1,200.00	55,200		
832	Floor drain FD-A	14	ea	675.00	9,450		
833	Floor drain FD-B	2	ea	900.00	1,800		
834	Floor drain FD-C	4	ea	1,000.00	4,000		
835	Floor drain FD-D	2	ea	900.00	1,800		
836	Floor drain FD-E	5	ea	1,250.00	6,250		
837	Kitchen floor drain	6	ea	800.00	4,800		
838	Kitchen floor sink	10	ea	2,500.00	25,000		
839	Trap primer	9	ea	1,050.00	9,450		
840	Freezeproof wall hydrant WH-1	11	ea	325.00	3,575		
841	Hose bibb HB-1	8	ea	225.00	1,800		
842	<u>Domestic/Non-Potable Water Piping</u>						
843	1/2"	3,991	lf	22.50	89,798		
844	3/4"	2,188	lf	24.00	52,512		
845	1"	1,289	lf	27.50	35,448		
846	1-1/4"	281	lf	29.00	8,149		
847	1-1/2"	1,360	lf	30.00	40,800		
848	2"	172	lf	35.00	6,020		
849	2-1/2"	100	lf	48.00	4,800		
850	3"	836	lf	53.00	44,308		
851	4"	89	lf	75.00	6,675		
852	Fixture rough-in	261	ea	350.00	91,350		
853	Valves & accessories	1	ls	25,000.00	25,000		
854	<u>Sanitary/Grease Waste And Vent Piping</u>						
855	Underground pipe with fittings						
856	2"	495	lf	35.00	17,325		
857	3"	49	lf	43.00	2,107		



60% CD Estimate

GFA

124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
<b>NEW CONSTRUCTION</b>								
858	4"	1,776	lf	52.50	93,240			
859	6"	235	lf	75.00	17,625			
860	8"	355	lf	110.00	39,050			
861	FCO	53	ea	800.00	42,400			
862	Above ground pipe with fittings & hangers							
863	1-1/2"	121	lf	37.50	4,538			
864	2"	2,722	lf	40.00	108,880			
865	3"	688	lf	45.00	30,960			
866	4"	411	lf	55.00	22,605			
867	Fixture/drain rough-in	304	ea	350.00	106,400			
868	<u>Acid Waste Piping</u>							
869	Polypropylene pipe with fittings & hangers	124,200	sf	0.90	111,780			
870	<u>Storm Drainage, Hubless Cast Iron Piping</u>							
871	Underground pipe with fittings							
872	4"	126	lf	52.50	6,615			
873	5"	173	lf	65.00	11,245			
874	6"	165	lf	75.00	12,375			
875	8"	499	lf	110.00	54,890			
876	10"	174	lf	130.00	22,620			
877	12"	72	lf	150.00	10,800			
878	16"	29	lf	200.00	5,800			
879	FCO	24	ea	800.00	19,200			
880	Above ground pipe with fittings & hangers							
881	4"	739	lf	55.00	40,645			
882	5"	832	lf	70.00	58,240			
883	6"	430	lf	80.00	34,400			
884	8"	302	lf	115.00	34,730			
885	Drain connection	46	ea	200.00	9,200			
886	<u>Pipe insulation</u>							
887	Domestic pipe insulation	11,000	lf	10.00	110,000			
888	Storm pipe insulation (horizontal)	1,524	lf	22.00	33,528			
889	<u>Natural Gas Piping</u>							
890	Natural gas pipe with fittings & hangers							
891	1/2"	50	lf	28.00	1,400			
892	3/4"	122	lf	30.00	3,660			
893	1-1/2"	98	lf	44.00	4,312			
894	2"	19	lf	47.00	893			
895	2-1/2"	418	lf	50.00	20,900			
896	Kitchen gas valves, connections, & accessories	1	ls	5,000.00	5,000			
897	<u>Compressed air Piping</u>							
898	Compressed air pipe with fittings & hangers	622	lf	28.00	17,416			
899	Equipment connections & accs	1	ls	7,500.00	7,500			
900	<u>Miscellaneous</u>							
901	System testing and flushing	1	ls	6,500.00	6,500			
902	Coring, cutting, sleeves & sealing	1	ls	18,000.00	18,000			
903	Hydraulic lifts/rigging	1	ls	22,500.00	22,500			
904	Shop drawings / BIM / ENG Support / As-Builts	1	ls	47,500.00	47,500			
905	Commissioning Support	1	ls	8,000.00	8,000			
906	Fees & permits	1	ls	9,000.00	Waived			
907	SUBTOTAL					2,306,539		
908								
909	<b>TOTAL - PLUMBING</b>						<b>\$2,306,539</b>	
910								
911								
912	<b>D30 HVAC</b>							



60% CD Estimate

GFA 124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

913

914

**D30 HVAC, GENERALLY**

915

HVAC Equipment

916

Gas fired HW condensing boilers B-1,2, 2500 MBH 2 ea 56,000.00 112,000

917

Air cooled high efficiency chiller CH-1, 239 tons 1 ea 250,000.00 250,000

918

Expansion tank 2 ea 4,000.00 8,000

919

Air separator 1 ea 3,500.00 3,500

920

Glycol system 2 ea 10,000.00 20,000

921

Radiant panels 1,885 lf 140.00 263,900

922

Convactor 29 ea 500.00 14,500

923

Unit heater 4 ea 850.00 3,400

924

Cabinet unit heater, HW 12 ea 1,800.00 21,600

925

Cabinet unit heater, electric 3 ea 2,300.00 6,900

926

Ductless split AC system (cooling only)

927

1 ton 4 ea 4,000.00 16,000

928

1.5 ton 2 ea 5,000.00 10,000

929

2 ton 3 ea 6,000.00 18,000

930

3 ton 7 ea 7,500.00 52,500

931

3.5 ton 2 ea 9,000.00 18,000

932

Pumps

933

Boiler pumps 2 ea 3,000.00 6,000

934

Hot water pump with vfd 2 ea 24,000.00 48,000

935

Chilled water pump with vfd 2 ea 25,000.00 50,000

936

Air distribution

937

Rooftop air handling units w/HW coil, CHW coil, RF and ERW

938

RTU-1, 2 & 3, 9000 CFM 3 ea 126,000.00 378,000

939

RTU-4, 7000 CFM 1 ea 98,000.00 98,000

940

RTU-5, 4800 CFM 1 ea 67,200.00 67,200

941

RTU-6, 12000 CFM 1 ea 168,000.00 168,000

942

RTU-7, 4300 CFM 1 ea 60,200.00 60,200

943

RTU-8, 7200 CFM 1 ea 100,800.00 100,800

944

RTU-8, 13000 CFM 1 ea 182,000.00 182,000

945

RTU-10, 4000 CFM 1 ea 56,000.00 56,000

946

RTU-11, 13500 CFM 1 ea 189,000.00 189,000

947

RTU-12, 2400 CFM 1 ea 33,600.00 33,600

948

RTU-13, 2200 CFM 1 ea 30,800.00 30,800

949

Fan coil unit FCU-1, 600 CFM 1 ea 5,000.00 5,000

950

Exhaust fan

951

Exhaust fans, roof 3 ea 3,500.00 10,500

952

Exhaust fan, kitchen hood 1 ea 6,000.00 6,000

953

Exhaust fans, small inline 5 ea 1,500.00 7,500

954

Sheet metal & Accessories

955

Galvanized ductwork with fittings & hangers 110,000 lb 14.00 1,540,000

956

Duct insulation 75,000 sf 5.50 412,500

957

Welded black iron grease exhaust ductwork 1 ls 20,000.00 20,000

958

Fire wrap kitchen duct insulation 1 ls 18,000.00 18,000

959

Combustion air duct & flue 1 ls 30,000.00 30,000

960

VAV terminal unit w/HW coil 120 ea 850.00 102,000

961

Registers, grilles & diffusers 430 ea 150.00 64,500

962

Linear diffuser 112 lf 75.00 8,400

963

Sound attenuators for RTUs 26 ea 4,000.00 104,000

964

965

Piping

966

Chilled Water Piping

967

Chilled water piping with fittings & hangers

968

1" 129 lf 33.00 4,257

969

2" 1,027 lf 47.00 48,269

970

3" 510 lf 68.00 34,680

971

4" 189 lf 84.00 15,876



60% CD Estimate

GFA

124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
<b>NEW CONSTRUCTION</b>								
972	6"	90	lf	122.00	10,980			
973	Mechanical Room Piping	1	ls	30,000.00	30,000			
974	Valves & accessories	1	ls	45,000.00	45,000			
975	<u>Hot Water Piping</u>							
976	Hot water piping with fittings & hangers							
977	3/4"	6,930	lf	27.00	187,110			
978	1"	2,629	lf	33.00	86,757			
979	1-1/4"	883	lf	40.00	35,320			
980	1-1/2"	691	lf	44.00	30,404			
981	2"	334	lf	47.00	15,698			
982	2-1/2"	374	lf	50.00	18,700			
983	3"	378	lf	68.00	25,704			
984	4"	1,184	lf	84.00	99,456			
985	6"	121	lf	122.00	14,762			
986	Mechanical Room Piping	1	ls	40,000.00	40,000			
987	Valves & accessories	1	ls	75,000.00	75,000			
988	<u>Refrigerant Piping</u>							
989	Refrigerant piping with fittings & hangers	18	loc	2,500.00	45,000			
990	<u>Condensate Drain Piping</u>							
991	Condensate drain piping with fittings & hangers	19	loc	1,000.00	19,000			
992	<u>Piping Insulation</u>							
993	Chilled water piping	1,945	lf	14.00	27,230			
994	Hot water piping	13,524	lf	12.00	162,288			
995	Refrigerant and condensate drains	1	ls	7,500.00	7,500			
996	<u>Automatic Temperature Controls</u>							
997	Automatic temperature controls DDC	124,200	sf	6.25	776,250			
998	<u>Balancing</u>							
999	System testing & balancing	124,200	sf	0.75	93,150			
1000	<u>Miscellaneous</u>							
1001	System testing and flushing	1	ls	22,500.00	22,500			
1002	Coring, cutting, sleeves & sealing	1	ls	18,000.00	18,000			
1003	Hydraulic lifts/rigging	1	ls	75,000.00	75,000			
1004	Shop drawings / BIM / ENG Support / As-Builts	1	ls	50,000.00	50,000			
1005	Commissioning Support	1	ls	35,000.00	35,000			
1006	Fees & permits	1	ls	70,000.00	Waived			
1007	SUBTOTAL					6,763,191		
1008								
1009	<b>TOTAL - HVAC</b>							<b>\$6,763,191</b>
1010								
1011								
1012	<b>D40 FIRE PROTECTION</b>							
1013								
1014	<b>D40 FIRE PROTECTION, GENERALLY</b>							
1015	Double check valve assembly	1	ea	16,000.00	16,000			
1016	Wet alarm check valve assembly	1	ea	5,500.00	5,500			
1017	Dry alarm valve	1	ea	3,500.00	3,500			
1018	Electric bell	1	ea	400.00	400			
1019	Fire department connection	1	ea	1,500.00	1,500			
1020	Electric fire pump, jockey pump and controller	1	ea	65,000.00	65,000			
1021	Zone control valve stations	5	ea	2,200.00	11,000			
1022	Sprinkler heads, recessed pendant	902	ea	115.00	103,730			
1023	Sprinkler heads, dry pendant	4	ea	140.00	560			
1024	Sprinkler heads, sidewall	24	ea	110.00	2,640			
1025	Sprinkler heads, upright	171	ea	110.00	18,810			
1026	Sprinkler heads, upright w/guard	54	ea	120.00	6,480			
1027	Distribution piping with fittings & hangers	12,750	lf	29.00	369,750			
1028	Main sprinkler piping and standpipes	1,500	lf	55.00	82,500			
1029	<u>Miscellaneous</u>							
1030	Coring, cutting, sleeves & sealing	1	ls	4,000.00	4,000			





60% CD Estimate

GFA 124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

1031	Hydraulic lifts/rigging	1	ls	17,300.00	17,300		
1032	Shop drawings / BIM / ENG Support / As-Builts	1	ls	20,500.00	20,500		
1033	Commissioning Support	1	ls	10,300.00	10,300		
1034	Fees & permits	1	ls	6,080.00	Waived		
1035	SUBTOTAL					739,470	
<b>TOTAL - FIRE PROTECTION</b>							<b>\$739,470</b>

**D50 ELECTRICAL**

**D5010 SERVICE & DISTRIBUTION  
Gear & Distribution**

1044	Check Metering (E-MON D-MON)	1	ls	5,000.00	5,000		
1045	3000A 480/277V switchboard	1	ea	95,000.00	95,000		
1046	225A 480/277V panelboard	12	ea	3,000.00	36,000		
1047	75KVA transformer (K-13 rated)	5	ea	11,175.00	55,875		
1048	30KVA transformer (K-13 rated)	5	ea	7,080.00	35,400		
1049	225A 208/120V panelboard	5	ea	3,000.00	15,000		
1050	100A 208/120V panelboard	16	ea	2,500.00	40,000		
1051	200A enclosed circuit breaker	8	ea	1,950.00	15,600		
1052	Zero harmonic filter	5	ea	3,500.00	17,500		
1053	Feeders (Alum conductors permitted per EE)						
1054	1200A feed (alum)	40	lf	480.00	19,200		
1055	400A feed (alum)	30	lf	152.00	4,560		
1056	225A feed (alum)	3,805	lf	65.00	247,325		
1057	150A feed (alum)	1,105	lf	50.00	55,250		
1058	100A feed (alum)	215	lf	32.00	6,880		
1059	60A feed (CU)	1,060	lf	23.00	24,380		
1060	<u>Emergency power</u>						
1061	700KW diesel emergency generator with sound atten/wp cover, (fuel storage tank)	1	ls	245,000.00	245,000		
1062	Annunciator	1	ea	2,500.00	2,500		
1063	Fuel testing	1	ls	5,000.00	5,000		
1064	Rigging	1	ls	5,000.00	5,000		
1065	Check Metering (E-MON D-MON)	1	ls	5,000.00	5,000		
1066	1200A 480/277V distribution panelboard	1	ea	30,000.00	30,000		
1067	1200A ATS	1	ea	24,850.00	24,850		
1068	100A ATS	1	ea	3,830.00	3,830		
1069	225A 480/277V panelboard	10	ea	3,000.00	30,000		
1070	100A 480/277V panelboard	20	ea	2,500.00	50,000		
1071	112.5KVA transformer (Dimming/Relay panel) unsized	2	ea	20,750.00	41,500		
1072	112.5KVA transformer	1	ea	20,750.00	20,750		
1073	30KVA transformer (K-13 rated)	7	ea	7,080.00	49,560		
1074	400A 208/120V panelboard (Kitchen)	1	ea	12,000.00	12,000		
1075	100A 208/120V panelboard	2	ea	2,500.00	5,000		
1076	200A enclosed circuit breaker	8	ea	1,950.00	15,600		
1077	Zero harmonic filter	6	ea	3,500.00	21,000		
1078	Feeders (Alum conductors permitted per EE)						
1079	400A feed (alum)	20	lf	152.00	3,040		
1080	225A feed (alum)	1,820	lf	65.00	118,300		
1081	100A feed (alum)	665	lf	32.00	21,280		
1082	60A feed (CU)	1,590	lf	23.00	36,570		
1083	<u>UPS system</u>						
1084	No work this section					NIC	
1085	<u>Photovoltaic</u>						
1086	PV future provisions	1	ls	5,000.00	5,000		



60% CD Estimate

GFA

124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

1087	<u>Equipment Wiring</u>						
1088	Fire pump connection	1	ea	1,000.00	1,000		
1089	150A FP feed (See Site work)					Site work	
1090	Jockey pump feed & connection	1	ea	1,500.00	1,500		
1091	Elevator feed & connection	1	ea	3,500.00	3,500		
1092	Elevator cab power feed & connection	1	ea	1,200.00	1,200		
1093	Sump pump feed & connection	1	ea	1,000.00	1,000		
1094	Gas fired HW condensing boiler 2200 MBH feed & connection	2	ea	1,200.00	2,400		
1095	RTU feed & connection with VFD connection	13	ea	3,500.00	45,500		
1096	Split unit feed & connection	18	ea	2,500.00	45,000		
1097	Air cooled high efficiency chiller 239 tons feed & connection	1	ea	12,000.00	12,000		
1098	Pump feed & connection	8	ea	1,500.00	12,000		
1099	CUH/UH feed & connection	19	ea	850.00	16,150		
1100	FCU feed & connection	1	ea	850.00	850		
1101	EF feed & connection	8	ea	850.00	6,800		
1102	Trap primer	9	ea	350.00	3,150		
1103	VFD's feed & connections only	4	ea	850.00	3,400		
1104	DDC feed & connections	1	ea	450.00	450		
1105	Overhead feed & connection	5	ea	1,200.00	6,000		
1106	Cord reel feed & connection	20	ea	1,000.00	20,000		
1107	Kiln feed & connection	1	ea	650.00	650		
1108	Air compressor feed & connection	1	ea	1,200.00	1,200		
1109	Paddle fan feed & connection (EC provide per spec)	6	ea	1,500.00	9,000		
1110	Motorized door feed & connection	6	ea	850.00	5,100		
1111	Motorized shades/controller feed & connection	30	ea	450.00	13,500		
1112	Range receptacle feed & connection	2	ea	550.00	1,100		
1113	Dishwasher feed & connection	2	ea	450.00	900		
1114	Dryer feed & connection	1	ea	450.00	450		
1115	Hand dryer feed & connection	7	ea	450.00	3,150		
1116	Projection screen feed & connection	1	ea	450.00	450		
1117	20A feed and connections	16	ea	450.00	7,200		
1118	Kitchen equipment wiring						
1119	HV gas-fired makeup air unit (Kitchen)	1	ea	1,750.00	1,750		
1120	Kitchen exhaust hood feed & connection	1	ls	2,000.00	2,000		
1121	Large equipment feed and connections	5	ea	2,500.00	12,500		
1122	20A feed and connections	26	ea	450.00	11,700		
1123	SUBTOTAL						1,676,300

**D5020 LIGHTING & POWER**

1126	<u>Lighting &amp; Branch Power</u>						
1127	Type A	2,076	lf	120.00	249,120		
1128	Type B1	289	ea	300.00	86,700		
1129	Type B1W	49	ea	300.00	14,700		
1130	Type C1	46	ea	200.00	9,200		
1131	Type D1	65	ea	200.00	13,000		
1132	Type E1	97	ea	350.00	33,950		
1133	Type F	276	lf	120.00	33,120		
1134	Type G	1,762	lf	150.00	264,300		
1135	Type HB (Gym)	24	ea	550.00	13,200		
1136	Type K5 (Decorative)	6	ea	1,500.00	9,000		
1137	Type L (Cove)	542	lf	95.00	51,490		
1138	Type M4	24	ea	350.00	8,400		
1139	Type P	544	lf	150.00	81,600		
1140	Type T (track)	16	ea	50.00	800		



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

1141	Type T1 (track head)	12	ea	175.00	2,100		
1142	Type WS1	3	ea	375.00	1,125		
1143	Type WW12	1	ea	200.00	200		
1144	Exit	81	ea	180.00	14,580		
1145	<u>Lighting control system</u>						
1146	Lighting controls including daylight harvesting system (E-	124,200	sf	0.75	93,150		
1147	Lighting control panel	3	ea	2,500.00	7,500		
1148	Single pole switch	13	ea	31.00	403		
1149	Single pole switch LV	33	ea	31.00	1,023		
1150	Dimmer switch	247	ea	65.00	16,055		
1151	Occupancy/daylight sensor	333	ea	180.00	59,940		
1152	Photocell	1	ea	225.00	225		
1153	<u>Lighting circuitry</u>						
1154	Back box	1,975	ea	34.00	67,150		
1155	3/4 EMT	5,000	lf	7.00	35,000		
1156	#12 THHN	20,000	lf	1.05	21,000		
1157	12-2 MC cable	20,000	lf	4.50	90,000		
1158	12-3 MC cable	5,000	lf	5.35	26,750		
1159	LV cable	7,500	lf	1.50	11,250		
1160	<u>Branch devices</u>						
1161	Duplex receptacle	126	ea	26.00	3,276		
1162	Duplex receptacle (controlled)	107	ea	26.00	2,782		
1163	Double Duplex receptacle	258	ea	54.00	13,932		
1164	Double Duplex receptacle (controlled)	90	ea	54.00	4,860		
1165	Double Duplex receptacle (floor)	16	ea	54.00	864		
1166	GFI receptacle	77	ea	36.00	2,772		
1167	GFI receptacle WP	20	ea	46.00	920		
1168	GFI receptacle (double)	59	ea	72.00	4,248		
1169	GFI receptacle (controlled)	20	ea	36.00	720		
1170	GFI receptacle (double, controlled)	17	ea	72.00	1,224		
1171	Special purpose receptacle	48	ea	45.00	2,160		
1172	<u>Branch circuitry</u>						
1173	Floor box	15	ea	450.00	6,750		
1174	Back box	1,200	ea	28.50	34,200		
1175	3/4 EMT	7,000	lf	7.00	49,000		
1176	#12 THHN	30,000	lf	1.05	31,500		
1177	12-2 MC cable	17,000	lf	4.50	76,500		
1178	SUBTOTAL					1,551,739	

**D5030 COMMUNICATION & SECURITY SYSTEMS**

1181	<u>Fire Alarm (Mass Notification)</u>						
1182	Fire alarm control panel	1	ea	25,000.00	25,000		
1183	Mass notification control panel	1	ea	5,000.00	5,000		
1184	Incident control panel	1	ea	3,500.00	3,500		
1185	LCD annunciator with microphone	1	loc	1,850.00	1,850		
1186	Graphic annunciator	1	loc	2,350.00	2,350		
1187	DACT	1	ea	850.00	850		
1188	Radio Master box and antenna	1	ea	8,500.00	8,500		
1189	Exterior beacon	1	ea	225.00	225		
1190	Knox box	2	ea	350.00	700		
1191	NAC power extender	1	ea	1,500.00	1,500		
1192	Drill switch	1	ea	200.00	200		
1193	Initiating device	93	ea	140.00	13,020		
1194	Duct smoke detector, allow	1	ea	450.00	450		
1195	Amber visual device (MN)	200	ea	120.00	24,000		



60% CD Estimate

GFA

124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>NEW CONSTRUCTION</b>							
1196	Audio/visual device	145	ea	120.00	17,400		
1197	Visual device	46	ea	110.00	5,060		
1198	FP equipment connection	4	ea	125.00	500		
1199	Elevator recall connection	1	ea	125.00	125		
1200	Monitor/control module	50	ea	140.00	7,000		
1201	Device box	550	ea	28.50	15,675		
1202	3/4" EMT	1,000	lf	7.00	7,000		
1203	FA cable	1,500	lf	1.25	1,875		
1204	FA MC cable	20,000	lf	5.75	115,000		
1205	Testing & programming	1	ls	7,500.00	7,500		
1206	<u>Bi-Directional System</u>						
1207	BDA system	124,200	sf	0.75	93,150		
1208	<u>Two-Way Communication</u>						
1209	Two-Way Communication	1	ls	15,000.00	15,000		
1210	<u>Security System</u>						
1211	Intrusion Detection	1	ls	35,000.00	35,000		
1212	Access Control	1	ls	60,000.00	60,000		
1213	Network Video Recorders	3	ea	30,000.00	90,000		
1214	Camera allowance Ai3	1	ls	250,000.00	250,000		
1215	Interior Cameras	130	ea		Included Above		
1216	Exterior Cameras	69	ea		Included Above		
1217	Card reader	27	ea	450.00	12,150		
1218	Keypad	4	ea	450.00	1,800		
1219	Duress button	11	ea	150.00	1,650		
1220	Door contact	96	ea	150.00	14,400		
1221	Motion detector	70	ea	200.00	14,000		
1222	Electric Lock (Provided by DHC)	34	ea	100.00	3,400		
1223	Electric Hinge (Provided by DHC)	34	ea	100.00	3,400		
1224	Power transfer (Provided by DHC)	34	ea	100.00	3,400		
1225	Intercom station	8	ea	1,200.00	9,600		
1226	REX	59	ea	150.00	8,850		
1227	Door junction box	34	ea	35.00	1,190		
1228	3/4" EMT	3,000	lf	7.00	21,000		
1229	Device box with 3/4" conduit stub	506	ea	110.00	55,660		
1230	Security cabling	50,000	lf	1.50	75,000		
1231	<u>Telephone/Data/CATV</u>						
1232	Network switches, PBX, IP, VP, CCTV	1	ls	300,000.00	by owner		
1233	MDF closet fit - out	1	loc	15,000.00	15,000		
1234	IDF closet fit - out	3	loc	10,000.00	30,000		
1235	1-port device (phone)	74	ea	22.00	1,628		
1236	1-port device	2	ea	22.00	44		
1237	2-port device	164	ea	44.00	7,216		
1238	3-port device	61	ea	66.00	4,026		
1239	4-port device	91	ea	88.00	8,008		
1240	5-port device	13	ea	110.00	1,430		
1241	6-port device	5	ea	66.00	330		
1242	Wireless access point (WAP)	105	ea	850.00	by owner		
1243	Cat 6A cable	255,000	lf	1.50	382,500		
1244	Backbone cabling	1,000	lf	8.00	8,000		
1245	Device box with conduit to ceiling	543	ea	110.00	59,730		
1246	4" sleeves	20	ea	225.00	4,500		
1247	<u>Public Address/Clock System</u>						
1248	Head end and items below	1	ls	200,000.00	200,000		
1249	Handset	74	ea	250.00	Included Above		
1250	Clock	119	ea	150.00	Included Above		



CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

1251	Call button	46	ea	150.00	Included Above		
1252	Speaker	287	ea	200.00	Included Above		
1253	Speaker WP	17	ea	300.00	Included Above		
1254	Speaker backbox	17	ea	65.00	Included Above		
1255	Device box with 3/4" conduit stub	239	ea	110.00	Included Above		
1256	Cabling	40,000	lf	1.25	Included Above		
1257	Speech reinforcement (Voice Lift)	45	ea		Included below		
1258	<u>Audio Visual</u>						
1259	<u>Classroom Technology</u>						
1260	Voice lift	47	ea	2,500.00		117,500	
1261	98" promethean	4	ea	3,500.00		NR	
1262	86" promethean	9	ea	6,600.00		59,400	
1263	75" promethean	50	ea	4,300.00		215,000	
1264	65" promethean	1	ea	2,300.00		2,300	
1265	Hovercams	61	ea	600.00		36,600	
1266	Cabling	61	ea	1,000.00		61,000	
1267	Band rooms audio (2.4.22)	1	ls	39,346.00		w/ E10	
1268	Band room sound system rough-in and power connections	1	ls	9,500.00		9,500	
1269	Chorus room sound system	1	ls	39,346.00		w/ E10	
1270	Chorus room sound system rough-in and power connections	1	ls	9,500.00		9,500	
1271	Fitness room sound system	1	ls	7,500.00		7,500	
1272	Fitness room sound system rough-in and power connections	1	ls	2,500.00		2,500	
1273	Portable sound system	1	ls	2,500.00		2,500	
1274	Portable assistive listening	1	ls	2,500.00		2,500	
1275	Student dining AV/assistive listening system	1	ls			w/ E10	
1276	Student dining AV (recon 2.7.22)	1	ls	114,705.00		w/ E10	
1277	Student dining commons video wall, including install (recon 2.7.22)	1	ls	97,052.00		w/ E10	
1278	Student dining display, 86" monitor (recon 2.7.22)	1	ls			w/ E10	
1279	<u>Digital Signage and Office Displays</u>						
1280	Main lobby & Project areas, 98" display	4	ea	10,000.00		40,000	
1281	75" display	3	ea	4,500.00		13,500	
1282	65" display	4	ea	2,000.00		8,000	
1283	43" display	1	ea	1,000.00		1,000	
1284	Mobile cart interactive display (Chorus)	1	ea	7,300.00		7,300	
1285	NVR (Network Video recorder)	3	ea	30,000.00		90,000	
1286	UPS	1	ea	2,500.00		2,500	
1287	Project lab projector					NIC	
1288	Library media center projector					NIC	
1289	Student dining AV/assistive listening system rough-in and power connections	1	ls	4,500.00		4,500	
1290	Video recording/ TV studio rough-in and power connections	1	ls	4,500.00		4,500	
1291	Text messaging board rough in and power connections (MSB)	9	loc	500.00		4,500	
1292	<u>Auditorium</u>						
1293	Rigging system equipment & installation					See equipment	
1294	Power to rigging equipment	1	ls	15,000.00		15,000	
1295	Stage dimming system as per narrative	1	ls	89,000.00		See equipment	
1296	Dimming panel	1	ls			DIV 11 per riser plan	
1297	Relay Panel (DR1)	1	ls			DIV 11 per riser plan	
1298	ELTS	4	ea			DIV 11 per riser plan	
1299	Stage performance fixture package as per narrative	1	ls	141,000.00		See equipment	
1300	Seat light feed and connection	20	ls	450.00		9,000	
1301	Installation, rough-in & 120V power to dimming equipment	1	ls	67,000.00		67,000	
1302	Performance audio visual equipment, installation & LV cabling, as per narrative	1	ls			See equipment	
1303	Performance audio visual rough-in and power	1	ls	65,000.00		65,000	



60% CD Estimate

GFA 124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

1304	<u>Gymnasium</u>							
1305	Gym audio and video	1	ls	129,865.00	w/ E10			
1306	Scoreboard/ shot clocks with feed and connection	2	ea	15,000.00	30,000			
1307	Misc. gym equipment feed and connections	1	ls	16,500.00	16,500			
1308	SUBTOTAL					2,659,442		
1309								
1310	<b>D5040 OTHER ELECTRICAL SYSTEMS</b>							
1311	<u>Grounding protection</u>							
1312	Building grounding	1	ls	25,000.00	25,000			
1313	Lightning Protection System, UL Master label (Northeast Lightning Quote) (NR per previous RECON)	1	ls	55,000.00	55,000			
1314	<u>Miscellaneous</u>							
1315	Temp power and lights	1	ls	65,000.00	65,000			
1316	Seismic restraints	1	ls	10,000.00	10,000			
1317	Short circuit/coordination/selective coordination studies	1	ls	15,000.00	15,000			
1318	Coordination, BIM	1	ls	120,000.00	120,000			
1319	Fees & Permits	1	ls	60,000.00	Waived			
1320	SUBTOTAL					290,000		
1321								
1322	<b>TOTAL - ELECTRICAL</b>							<b>\$6,177,481</b>
1323								
1324								
1325	<b>E10 EQUIPMENT</b>							
1326								
1327	<b>E10 EQUIPMENT, GENERALLY</b>							
1328								
1329	<b>111520 LOADING DOCK EQUIPMENT</b>							
1330	Allowance for dock bumpers and corner guards	1	ls	3,500.00	3,500			
1331								
1332	<b>111520 PROJECTION SCREENS</b>							
1333	Chorus classroom , 14' wide	1	ea	15,000.00	15,000			
1334								
1335	<b>114000 FOOD SERVICE EQUIPMENT</b>							
1336	Kitchen equipment (Crabtree McGrath)	1	ls	561,705.00	561,705			
1337								
1338	<b>114500 APPLIANCES</b>							
1339	Kiln	1	ea	5,000.00	5,000			
1340	<u>Resource rooms</u>	3	ea					
1341	Under counter refrigerator	3	ea	1,200.00	3,600			
1342	Dishwasher	6	ea	900.00	5,400			
1343	<u>Science rooms</u>	3	ea					
1344	Dishwasher	6	ea	900.00	5,400			
1345	Icemaker	3	ea	800.00	2,400			
1346	Washer	3	ea	1,200.00	3,600			
1347	Dryer	3	ea	1,200.00	3,600			
1348	Counter water distiller	3	ea	1,500.00	4,500			
1349	<u>Kitchenette</u>	1	ea					
1350	Refrigerator	1	ea	1,800.00	1,800			
1351	<u>Waiting room</u>							
1352	Refrigerator counter depth	1	ea	2,200.00	2,200			
1353	<u>Teacher Collab</u>							
1354	Refrigerator counter depth	3	ea	2,200.00	6,600			
1355	<u>As per spec</u>							
1356	Cooktop	3	ea	1,000.00	NIC			
1357	Wall oven	3	ea	850.00	NIC			
1358	Ice storage chest	3	ea	850.00	NIC			



60% CD Estimate

GFA 124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

1359	<u>Guidance Office</u>	1	ea				
1360	Refrigerator counter depth	3	ea	2,200.00	6,600		
1361							
1362	116100 THEATRICAL EQUIPMENT (Budget 2.4.22)						
1363	Stage lighting fixture	1	ls	137,289.00	137,289		
1364	Stage dimming	1	ls	90,600.00	90,600		
1365	Stage audio and AV	1	ls	231,692.00	231,692		
1366	Stage curtains and rigging	1	ls	172,458.00	172,458		
1367	Band rooms audio (2.4.22)	1	ls	39,346.00	39,346		
1368	Chorus room sound system	1	ls	39,346.00	39,346		
1369	Gym audio and video	1	ls	129,865.00	129,865		
1370	Student dining AV/assistive listening system	1	ls		incl below		
1371	Student dining AV (recon 2.7.22)	1	ls	114,705.00	114,705		
1372	Student dining commons video wall, including install (recon 2.7.22)	1	ls	97,052.00	97,052		
1373	Student dining display, 86" monitor (recon 2.7.22)	1	ls		incl above		
1374	IDF closet switches for closed circuit television	1	ls	7,046.00	7,046		
1375	TV capability switches	1	ls	7,051.00	7,051		
1376							
1377	116600 ATHLETIC EQUIPMENT						
1378	Gym wall pads	770	sf	14.00	10,780		
1379	Adaptive PE wall pads	312	sf	14.00	4,368		
1380	Basketball backstops	7	ea	10,000.00	70,000		
1381	Gymnasium dividing net, fabric; electrically operated	1	ls	30,000.00	30,000		
1382	Volleyball net and standards	1	ls	5,000.00	5,000		
1383	Digital scoreboards with shot clocks				w/ electrical		
1384	Motorized bleachers; 144 seat capacity	1	ls	20,160.00	20,160		
1385							
1386	117700 EDUCATION EQUIPMENT						
1387	Peg boards				with casework		
1388	Misc lab equipment as per specification- acid storage cabinets, flammable storage cabinets, safety glass cabinets	6	labs	10,000.00	60,000		
1389	<u>Tech /engineering equipment- A10.01</u>						
1390	Ne1 lumber rack mfr 144" x 36" x 96"				reuse existing		
1391	Ne2 floor mount drill press mfr 28" x 14" x 0"				reuse existing		
1392	Ne3 floor mount band saw mfr 36" x 24" x 0"				reuse existing		
1393	Ne4 deck mount chop saw mfr 15" x 24" x 0"				reuse existing		
1394	Ne5 large format printer mfr 72" x 30" x 0"				reuse existing		
1395	<u>Owner furnished &amp; installed</u>						
1396	Ee1 planer saw mfr 37" x 24" x 0"				by owner		
1397	Ee2 table saw mfr 72" x 30" x 0"				by owner		
1398	SUBTOTAL					1,897,663	
1399							

<b>TOTAL - EQUIPMENT</b>	<b>\$1,897,663</b>
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**E20 FURNISHINGS**

**E2010 FIXED FURNISHINGS**

1406	124813 ENTRANCE FLOOR MAT AND FRAMES						
1407							
1408	Recessed floor grille & mats	919	sf	45.00	41,355		
1409	Walk off mats	637	sf	45.00	28,665		
1410							
1411	123000 CASEWORK						
1412	<u>General classroom</u>	18	rms				
1413	Base cabinet with plam counter	90	lf	435.00	39,150		



60% CD Estimate

GFA

124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**NEW CONSTRUCTION**

1414	Plam Backsplash 4"					included	
1415	S1.1 Sink Cabinet no drawers					included	
1416	F4.1 Tall cabinets 2lvs	18	ea	1,500.00	27,000		
1417	Wall cabinets	18	lf	250.00	4,500		
1418	Hardwood sill @ windows					with millwork	
1419	<u>Sped classroom</u>	6	rms				
1420	Base cabinet with plam counter	30	lf	435.00	13,050		
1421	Plam Backsplash 4"					included	
1422	S1.1 Sink Cabinet no drawers					included	
1423	F4.1 Tall cabinets 2lvs	6	ea	1,500.00	9,000		
1424	Wall cabinets	6	lf	250.00	1,500		
1425	Hardwood sill @ windows					with millwork	
1426	<u>Small Group Resource Room</u>	14	rms				
1427	Tall shelving cabinet, 24"	14	ea	1,000.00	14,000		
1428	<u>Health Classroom</u>	2	rms				
1429	Base cabinet with plam counter	12	lf	435.00	5,220		
1430	Plam Backsplash 4"					included	
1431	S1.1 Sink Cabinet no drawers					included	
1432	Tall Cabinet F.12 1lvs	4	ea	1,200.00	4,800		
1433	Wall cabinets	12	lf	250.00	3,000		
1434	Hardwood sill @ windows					with millwork	
1435	<u>Music Storage</u>	1	rms				
1436	Music storage cabinets MS1-MS4	42	lf	900.00	37,800		
1437	Guitar hooks	30	ea	250.00	7,500		
1438	<u>Music Office</u>	1	rms				
1439	Base cabinet with plam counter	6	lf	435.00	2,610		
1440	Wall cabinets	6	lf	250.00	1,500		
1441	<u>Band</u>	1	rms				
1442	Base cabinet with plam counter	6	lf	435.00	2,610		
1443	TS-36	1	ea	1,800.00	1,800		
1444	Wall cabinets	6	lf	250.00	1,500		
1445	<u>Music classroom: Chorus</u>	1	rms				
1446	Base cabinet with plam counter	7	lf	435.00	3,045		
1447	Tall Cabinet F.12 1lvs	1	ea	1,800.00	1,800		
1448	Wall cabinets	7	lf	250.00	1,750		
1449	<u>Small Group Reading</u>	2	rms				
1450	TS-36	4	ea	1,800.00	7,200		
1451	<u>SPED Office Speech &amp; Language</u>	1	rms				
1452	F3.3 Tall cabinets 2lvs	1	ea	1,500.00	1,500		
1453	Tall Cabinet F4.2 1lvs	1	ea	1,200.00	1,200		
1454	Hardwood sill @ windows					with millwork	
1455	<u>SPED Resource</u>	3	rms				
1456	Base cabinet with plam counter	36	lf	435.00	15,660		
1457	Plam Backsplash 4"					included	
1458	S1.1 Sink Cabinet no drawers					included	
1459	Wall cabinets	60	lf	250.00	15,000		
1460	Wall padding type 1 ( 3 sides)	312	sf			with equipment	
1461	PT and Soap dispenser	3	ea	250.00			
1462	F3.1 Tall cabinets 2lvs	3	ea	1,500.00	4,500		
1463	Hardwood sill @ windows					with millwork	
1464	<u>STE/Science classrooms and Prep</u>	6	ea		-		
1465	Base cabinet with epoxy resin counter	561	lf	550.00	308,550		
1466	Epoxy resin work counter waterfall edge						





60% CD Estimate

GFA

124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>NEW CONSTRUCTION</b>							
1467	Waterfall edges	22	ea	1,800.00	39,600		
1468	Wall cabinet,	343	lf	350.00	120,050		
1469	SW3.1 Wall shelving, 4 tier	36	lf	300.00	10,800		
1470	Peg board	51	ea	500.00	25,500		
1471	Student tables				NIC		
1472	PT and Soap dispenser	51	ea	250.00	12,750		
1473	<u>OT/PT</u>	1	rms				
1474	Base cabinet with plam counter	5	lf	435.00	2,175		
1475	Wall cabinets	5	lf	250.00	1,250		
1476	Tall Cabinet F4.2 1lvs	1	ea	900.00	900		
1477	F3.3 Tall cabinets 2lvs	1	ea	1,500.00	1,500		
1478	<u>Tech/Engineering</u>	3	ea				
1479	Base cabinet with plam counter	14	lf	435.00	6,090		
1480	Shelving cabinet	2	ea	800.00	1,600		
1481	Wall cabinets	18	lf	250.00	4,500		
1482	Peg board	1	ea	500.00	500		
1483	<u>Art Rooms</u>	2	ea		-		
1484	F3.1 Tall cabinets 2lvs	8	ea	1,800.00	14,400		
1485	Base cabinet open shelves 6 tiers	6	ea	1,500.00	9,000		
1486	Full height at storage shelves -open	6	ea	1,800.00	10,800		
1487	Base cabinet with stainless steel countertop	32	lf	550.00	17,600		
1488	Wall cabinet, glass doors	72	lf	350.00	25,200		
1489	<u>Admin &amp; Conference</u>						
1490	Base cabinet with plam counter	20	lf	435.00	8,700		
1491	Wall cabinets	20	lf	250.00	5,000		
1492	Wall hung countertop	56	lf	250.00	14,000		
1493	Tall cabinet, 3'	5	ea	1,800.00	9,000		
1494	<u>Kitchenette</u>						
1495	Base cabinet with plam counter	8	lf	435.00	3,480		
1496	Wall cabinets	12	lf	250.00	3,000		
1497	Mailboxes				w/millwork		
1498	<u>Office workroom</u>						
1499	Base cabinet with plam counter	12	lf	435.00	5,220		
1500	Wall cabinets	12	lf	250.00	3,000		
1501	PT and Soap dispenser	1	ea	250.00	250		
1502	Tall storage	1	ea	900.00	900		
1503	<u>Professional library</u>						
1504	Base cabinet with plam counter	5	lf	435.00	2,175		
1505	Wall cabinets	5	lf	250.00	1,250		
1506	Tall storage	1	ea	900.00	900		
1507	<u>Video recording/ Editing</u>						
1508	Wall hung countertop	10	lf	250.00	2,500		
1509	Tall cabinet, 3'	1	ea	1,800.00	1,800		
1510	<u>Exam rooms</u>						
1511	Base cabinet with plam counter	5	lf	435.00	2,175		
1512	Wall cabinets	5	lf	250.00	1,250		
1513	Tall storage, 30"	1	ea	1,500.00	1,500		
1514	<u>Waiting room</u>						
1515	Base cabinet with plam counter	9	lf	435.00	3,915		
1516	Wall cabinets	12	lf	250.00	3,000		
1517	Tall storage, 30"	2	ea	1,500.00	3,000		
1518	<u>Guidance corridor</u>						
1519	Base cabinet with plam counter	7	lf	435.00	3,045		



60% CD Estimate

GFA 124,200

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
<b>NEW CONSTRUCTION</b>								
1520	Wall cabinets	11	lf	250.00	2,750			
1521	Tall storage, 30"	1	ea	1,500.00	1,500			
1522	<u>Sped Corridor</u>							
1523	Tall storage, 30"	5	ea	1,500.00	7,500			
1524	<u>Trash stations</u>							
1525	Tall storage, 30"	24	lf	600.00	14,400			
1526	<u>Tech office</u>							
1527	Wall hung countertop	20	lf	250.00	5,000			
1528	Countertop support brackets	20	lf	50.00	1,000			
1529	<u>Teacher Collaboration</u>	3	rms		-			
1530	Base cabinet with plam counter	30	lf	435.00	13,050			
1531	Wall cabinets	42	lf	250.00	10,500			
1532	Wall hung countertop	48	lf	250.00	12,000			
1533	Countertop support brackets	48	lf	50.00	2,400			
1534	<u>Auditorium</u>	1	rms		-			
1535	Base cabinet with plam counter	8	lf	435.00	3,480			
1536	Wall cabinets	8	lf	250.00	2,000			
1537	Tall storage, 30"	1	ea	1,500.00	1,500			
1538	<u>Corridor</u>							
1539	Plastic laminate counter at lockers	526	lf	200.00	105,200			
1540								
1541	122400 <u>WINDOW TREATMENT</u>							
1542	Roller shades at exterior glazing	7,360	sf	6.00	44,160			
1543	Motorized shades at exterior	2,215	sf	26.00	57,590			
1544	Roller shades at interior glazing	5,165	sf	6.00	30,990			
1545	Motorized shades at interior	1,095	sf	26.00	28,470			
1546								
1547	126100 <u>FIXED AUDIENCE SEATING</u>							
1548	Auditorium seating	394	seats	350.00	137,900			
1549	Premium for telescoping seats	150	seats	70.00	10,500			
1550	SUBTOTAL					1,481,930		
1551								
1552	<b>E2020 MOVABLE FURNISHINGS</b>							
1553	No work in this section							
1554	SUBTOTAL						NIC	
1555								
1556	<b>TOTAL - FURNISHINGS</b>							<b>\$1,481,930</b>
1557								
1558								
1559	<b>F20 SELECTIVE BUILDING DEMOLITION</b>							
1560								
1561	<b>F2010 BUILDING ELEMENTS DEMOLITION</b>							
1562	See main summary for demolition of existing buildings							
1563	SUBTOTAL							
1564								
1565	<b>F2020 HAZARDOUS COMPONENTS ABATEMENT</b>							
1566	See main summary for HazMat allowance					See Summary		
1567	SUBTOTAL							
1568								
1569	<b>TOTAL - SELECTIVE BUILDING DEMOLITION</b>							



60% CD Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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SITWORK

**G SITEWORK**

**G10 SITE PREPARATION & DEMOLITION**

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60% CD Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>SITEWORK</b>							
57	Vertical granite curbing	8,694	lf	42.00	365,148		
58	Parking spot	177	spcs	85.00	15,045		
59	Parking spot - ADA	8	spcs	250.00	2,000		
60	ADA curb cuts	23	loc	850.00	19,550		
61	Crosswalks	6	loc	900.00	5,400		
62	Tabled crosswalk; bit. pvmt.	1	loc	2,500.00	2,500		
63	Parking lot markings	1	ls	10,000.00	10,000		
64	<u>Traffic signs</u>						
65	Signs - new	59	ea	125.00	7,375		
66	Signs - mounting hardware	59	ea	225.00	13,275		
67	Signs - posts	59	ea	487.50	28,763		
68	SUBTOTAL					1,181,516	
69	<u>Pedestrian paving</u>						
70	<u>Concrete walk, broom finish</u>						
71	Concrete walk, broom finish	40,641	sf				
72	Stone base #67 stone; 8" thick	1,008	cy	50.00	50,400		
73	Concrete, broom finish; 4" thick	40,641	sf	9.00	365,769		
74	Concrete ramp premium	130	sf	20.00	2,600		
75	<u>Exposed aggregate concrete paving</u>						
76	Stone base #67 stone; 8" thick	48	cy	50.00	2,400		
77	Concrete, exposed aggregate; 4" thick	1,916	sf	11.00	21,076		
78	<u>Exposed aggregate concrete paving bands</u>						
79	Gravel base; 12" thick	38	cy	50.00	1,900		
80	Concrete, exposed aggregate; 4" thick	1,026	sf	11.00	11,286		
81	<u>Bituminous concrete paving</u>						
82	Structural fill; 8" thick < 5% fines	204	cy	52.00	10,608		
83	asphalt top; 1" thick	51	tns	200.00	10,200		
84	asphalt binder; 2" thick	103	tns	180.00	18,540		
85	<u>Concrete pads</u>						
86	Structural fill; 12" thick < 5% fines	91	cy	52.00	4,732		
87	Concrete, 10" thick	2,466	sf	18.00	44,388		
88	<u>Colored concrete sidewalks</u>						
89	Stone base #67 stone; 8" thick	114	cy	50.00	5,700		
90	Concrete, broom finish; 4" thick	4,604	sf	11.00	50,644		
91	Colored concrete premium	4,604	sf	5.00	23,020		
92	SUBTOTAL					623,263	
93	<u>Baseball field</u>						
94	<u>Pitchers mound</u>						
95	Pitchers mound	1	ea	6,500.00	6,500		
96	Batters box	1	ea	3,500.00	3,500		
97	Home plate	1	ea	500.00	500		
98	Base plates	1	set	1,200.00	1,200		
99	Foul poles	2	ea	3,600.00	7,200		
100	Backstop	1	ls	45,000.00	45,000		
101	Modular dugout cover	2	loc	15,000.00	30,000		
102	Modular dugout benches - two tier	6	loc	3,000.00	18,000		
103	Field painting allowance	1	ls	5,000.00	5,000		
104	Solar powered scoreboard	1	loc	18,000.00	18,000		
105	<u>Softball field</u>						
106	Pitchers mound	1	ea	3,500.00	3,500		
107	Batters box	1	ea	3,500.00	3,500		
108	Home plate	1	ea	500.00	500		
109	Base plates	1	set	1,200.00	1,200		
110	Foul poles	2	ea	3,600.00	7,200		
111	Backstop	1	ls	35,000.00	35,000		
112	Modular dugout cover	2	loc	15,000.00	30,000		
113	Modular dugout benches - two tier	6	loc	3,000.00	18,000		



60% CD Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>SITework</b>							
114	Field painting allowance	1	ls	5,000.00	5,000		
115	Solar powered scoreboard	1	loc	18,000.00	18,000		
116	<u>Multi-use fields</u>	131,380	sf				
117	Field painting allowance	1	ls	5,000.00	5,000		
118	Soccer goals - not shown on plans	2	sets	9,000.00	FF&E		
119	Solar powered scoreboard	1	loc	20,000.00	20,000		
120	SUBTOTAL					281,800	
121							
122	<u>Site Improvements</u>						
123	Granite stairs stairs	260	lf	500.00	130,000		
124	Concrete stair foundation allowance	196	lf	200.00	39,200		
125	Concrete stairs at theater	66	lf	300.00	19,800		
126	Stainless steel handrails	93	lf	325.00	30,225		
127	Cafeteria concrete stairs	42	lf	225.00	9,450		
128	Cafeteria concrete stair footings	21	lf	200.00	4,200		
129	Storage building; 20x35 (see metal building backup)	1	ls	113,649.00	113,649		
130	Bike racks - Emerson per Landscape Forms	35	ea	778.96	27,264		
131	30' Flagpole	4	ea	10,000.00	40,000		
132	Concrete blocks; 8' length	17	loc	500.00	8,500		
133	Entrance signs	1	ea	25,000.00	25,000		
134	Pylon sign	1	ea	25,000.00	25,000		
135	Bollard - utility pads	31	ea	900.00	27,900		
136	Ornamental litter/recycling container	8	ea	2,500.00	FF&E		
137	Bench - Trapecia per Landscape Forms	5	ea	18,605.16	93,026		
138	Movable storage container	4	ea	10,000.00	40,000		
139	Gabion bench; 20' length	1	ea	10,000.00	NR		
140	Gabion benches; 6' length	14	ea	500.00	7,000		
141	Chalkboard in wall	1	ls	20,000.00	NR		
142	<u>Fencing</u>						
143	Two rail wood fence	395	lf	45.00	17,775		
144	Vehicular double gate	2	ea	10,000.00	20,000		
145	Breakaway ball safety netting system	452	lf	190.00	85,880		
146	4' Ht. chain-link fence in stone veneer wall	176	lf	65.00	11,440		
147	6' Ht. chain-link fence	1,809	lf	75.00	135,675		
148	6' Ht. chain-link fence; single gate	5	ea	1,000.00	5,000		
149	6' Ht. chain-link fence; double gate	3	ea	2,500.00	7,500		
150	8' Ht. chain-link fence	406	lf	95.00	38,570		
151	8' Ht. chain-link fence; single gate	6	ea	1,500.00	9,000		
152	SUBTOTAL					971,054	
153							
154	<u>Site Walls</u>						
155	<u>Modular Block Wall - Field #1</u>	63	lf				
156	Large block wall- avg. 2.5' Ht.	221	sf	55.00	12,155		
157	Excavate and prepare wall base	14	cy	100.00	1,400		
158	Backfill wall - crushed stone	7	cy	65.00	455		
159	Backfill-controlled placement; above grade select	41	cy	45.00	1,845		
160	Geotextiles	332	sf	2.50	830		
161	<u>Modular Block Wall - Outfield of baseball</u>	163	lf				
162	Large block wall- avg. 3' Ht.	652	sf	55.00	35,860		
163	Excavate and prepare wall base	36	cy	100.00	3,600		
164	Backfill wall - crushed stone	21	cy	65.00	1,365		
165	Backfill-controlled placement; above grade select	145	cy	45.00	6,525		
166	Geotextiles	978	sf	2.50	2,445		
167	<u>Cast-in-place wall - Field #2 - 4' Ht.</u>	210	lf				
168	Formwork	1,680	sf	25.00	42,000		
169	Re-bar - allowance	7,879	lbs	2.00	15,758		
170	Concrete material	86	cy	250.00	21,500		
171	Placing concrete	86	cy	300.00	25,800		
172	Excavation	93	cy	100.00	9,300		



60% CD Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>SITework</b>							
173	Backfill-controlled placement; above grade (assume using onsite soils)	124	cy	25.00	3,100		
174	4" perforated wall drain	210	lf	22.00	4,620		
175	<u>Modular Block Wall - baseball field backstop</u>	144	lf				
176	Large block wall- avg. 6' Ht.	1,008	sf	55.00	55,440		
177	Excavate and prepare wall base	32	cy	100.00	3,200		
178	Backfill wall - crushed stone	35	cy	65.00	2,275		
179	Backfill-controlled placement; above grade select	448	cy	45.00	20,160		
180	Geotextiles	1,512	sf	2.50	3,780		
181	<u>Cast-in-place wall - Theater - 4' Ht</u>	66	lf				
182	Formwork	528	sf	20.00	NIC		
183	Re-bar - allowance	5,192	lbs	2.00	NIC		
184	Concrete material	69	cy	140.00	NIC		
185	Placing concrete	69	cy	90.00	NIC		
186	Excavation	15	cy	100.00	NIC		
187	Backfill-controlled placement; above grade (assume using onsite soils)	20	cy	25.00	NIC		
188	4" perforated wall drain	66	lf	22.00	NIC		
189	<u>Cast-in-place wall - Bus Loop - 8' Ht.</u>	71	lf				
190	Formwork	852	sf	20.00	17,040		
191	Re-bar - allowance	3,044	lbs	2.00	6,088		
192	Concrete material	39	cy	140.00	5,460		
193	Placing concrete	39	cy	90.00	3,510		
194	Excavation	63	cy	100.00	6,300		
195	Backfill-controlled placement; above grade (assume using onsite soils)	84	cy	25.00	2,100		
196	4" perforated wall drain	71	lf	22.00	1,562		
197	<u>Freestanding stone veneer wall s</u>	200	lf				
198	Formwork	1,000	sf	20.00	20,000		
199	Re-bar - allowance	6,432	lbs	2.00	12,864		
200	Concrete material	59	cy	140.00	8,260		
201	Placing concrete	59	cy	90.00	5,310		
202	Excavation	178	cy	100.00	17,800		
203	Backfill-controlled placement; above grade (assume using onsite soils)	237	cy	25.00	5,925		
204	4" perforated wall drain	200	lf	22.00	4,400		
205	Veneer along exposed sides	800	sf	65.00	52,000		
206	Precast concrete cap	200	lf	125.00	25,000		
207	<u>Stone stair cheek walls with veneer</u>	24	lf				
208	Formwork	192	sf	20.00	3,840		
209	Re-bar - allowance	874	lbs	2.00	1,748		
210	Concrete material	12	cy	140.00	1,680		
211	Placing concrete	12	cy	90.00	1,080		
212	Excavation	5	cy	100.00	500		
213	Backfill-controlled placement; above grade (assume using onsite soils)	7	cy	25.00	175		
214	4" perforated wall drain	24	lf	22.00	528		
215	Veneer along exposed side	192	sf	65.00	12,480		
216	Precast concrete cap	24	lf	125.00	3,000		
217	SUBTOTAL					492,063	
218							
219	<u>Landscaping</u>						
220	Screen topsoil	14,800	cy	5.50	81,400		
221	Export tailings from screening process - assume clean rock	4,440	cy	8.50	37,740		
222	Amend/Place for new seeded area from stockpile	10,360	cy	20.00	207,200		
223	Imported topsoil for seeded areas; swell 25% (make up delta)	1,800	cy	55.00	99,000		
224	Planting soils; swell 25%	144	cy	65.00	9,360		
225	Lawn areas ( outside of fields)	330,000	sf	0.30	99,000		
226	Planting maintenance - 1 year	1	ls	15,000.00	15,000		
227							
228	320000 <u>ATHLETIC LANDSCAPING</u>						
229	<u>Softball Infield</u>	12,491	sf				
230	Infield mix	252	tn	225.00	56,700		



60% CD Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>SITework</b>							
231	crushed stone; 8" thick	305	cy	55.00	16,775		
232	<u>Baseball Infield</u>	11,047	sf				
233	Infield mix	223	tn	225.00	50,175		
234	crushed stone; 8" thick	270	cy	55.00	14,850		
235	<u>Softball Sod</u>	27,541	sf				
236	Sodding	27,541	sf	1.25	34,426		
237	Sand gravel fill; 8" thick	673	cy	45.00	NR		
238	Irrigation	27,541	sf	1.00	27,541		
239	<u>Baseball Sod</u>	123,788	sf				
240	Sodding	123,788	sf	1.25	154,735		
241	Sand gravel fill; 8" thick	3,026	cy	45.00	NR		
242	Irrigation	123,788	sf	1.00	123,788		
243	<u>Multi-use field sod</u>	145,948	sf				
244	Sodding	145,948	sf	1.25	182,435		
245	Sand gravel fill; 8" thick	3,568	cy	45.00	NR		
246	Irrigation	145,948	sf	1.00	145,948		
247	<u>Irrigation</u>						
248	Irrigation at sports fields		sf	1.00	w/ athletics above		
249	Irrigation at lawn areas		sf	1.25	NR		
250	Booster pump	1	ea	30,000.00	30,000		
251	Well	1	ea	75,000.00	Alt. 1A		
252	Pump system	1	ea	100,000.00	Alt. 1B		
253	Storage tanks	62,500	cf	2.00	Alt. 1B		
254	<u>Landscaping site improvements</u>						
255	Landscaping boulders	22	ea	500.00	11,000		
256	Landscape curbing	94	lf	130.00	12,220		
257	<u>Trees</u>						
258	Deciduous trees; 2-2.5" Cal.	68	ea	1,800.00	122,400		
259	Deciduous trees; 3 - 3.5" Cal.	79	ea	2,000.00	158,000		
260	Evergreen trees; 5-6' Ht.	19	ea	900.00	17,100		
261	Evergreen trees; 7-8' Ht.	14	ea	1,200.00	16,800		
262	<u>Bio-retention areas</u>						
263	Groundcovers; plugs	271	ea	8.00	2,168		
264	Groundcovers; seed	5,150	sf	0.55	2,833		
265	Shrubs - 3 Gal.	57	ea	55.00	3,135		
266	Shrub areas; plugs	1,692	sf	1.25	2,115		
267	<u>Shrubs &amp; Ground covers</u>						
268	Shrub areas; plugs	21	sf	5.00	105		
269	Groundcovers; plugs	2,005	ea	8.00	16,040		
270	Shrubs - 3 Gal.	3	ea	35.00	105		
271	SUBTOTAL					1,750,094	
272							
273	<b>G30 CIVIL MECHANICAL UTILITIES</b>						
274	210000 FIRE PROTECTION						
275	8" CLDI	2,969	lf	60.00	178,140		
276	6" CLDI	142	lf	48.00	6,816		
277	Fire department connection	1	ea	2,500.00	2,500		
278	Gate valve	34	ea	900.00	30,600		
279	Fire hydrant	4	ea	4,000.00	16,000		
280	Thrust blocks	21	ea	500.00	10,500		
281	331000 WATER UTILITIES						
282	4" CLDI	178	lf	56.00	9,968		
283	2" Irrigation tap and meter	1	loc	5,000.00	5,000		
284	Irrigation meter pit	1	loc	5,000.00	5,000		
285	Connect to existing water line; 20" live tap	2	ea	20,000.00	40,000		
286	312000 EXCAVATION & BACKFILL						
287	DI piping excavation/backfill (inside site)	3,289	lf	35.00	115,115		



60% CD Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>SITework</b>							
288	Pressure test & chlorinate	3,289	lf	5.00	16,445		
289	Allowance for temporary water service	1	ea	25,000.00	NR		
290	Allowance for temporary support of existing utilities	1	ea	15,000.00	NR		
291	SUBTOTAL					436,084	
292							
293	333000 SANITARY SEWER						
294	10" PVC	53	lf	40.00	2,120		
295	8" PVC	823	lf	35.00	28,805		
296	6" PVC	142	lf	30.00	4,260		
297	4" PVC	81	lf	25.00	2,025		
298	SMH	12	ea	4,500.00	54,000		
299	Grease trap - 5,000 gal.	1	ea		w/ plumbing		
300	Connect to existing (in roadway)	1	ea	10,000.00	10,000		
301	312000 EXCAVATION & BACKFILL						
302	PVC gravity piping excavation/backfill (inside site)	1,099	lf	40.00	43,960		
303	Pressure testing	1,099	lf	4.00	4,396		
304	Video Inspection	1	ls	10,000.00	10,000		
305	Grease trap; 5,000 gal. (e/b only) incl. shoring	1	ea	5,000.00	5,000		
306	Allowance for temporary sewer service	1	ea	25,000.00	NR		
307	Allowance for temporary support of existing utilities	1	ea	15,000.00	NR		
308	SUBTOTAL					164,566	
309							
310	334000 STORM DRAINAGE						
311	12" HDPE	1,092	lf	70.00	76,440		
312	16" HDPE	47	lf	85.00	3,995		
313	6" HDPE	3,668	lf	55.00	201,740		
314	18" RCP	238	lf	110.00	26,180		
315	15" RCP	1,281	lf	100.00	128,100		
316	12" RCP	3,911	lf	90.00	351,990		
317	DMH - 4' Dia.	26	ea	4,200.00	109,200		
318	DMH - 5' Dia.	2	ea	5,000.00	10,000		
319	DMH - 6' Dia.	6	ea	6,000.00	36,000		
320	DMH - doghouse	2	ea	6,000.00	12,000		
321	AD	45	ea	2,500.00	112,500		
322	OCS	3	ea	8,000.00	24,000		
323	HDS	7	ea	10,000.00	70,000		
324	FES	2	ea	2,500.00	5,000		
325	CB - 4' Dia.	30	ea	3,800.00	114,000		
326	Trench drains	40	lf	180.00	7,200		
327	Stone check dam	235	sf	8.00	1,880		
328	Roof drain connections	4	ea	500.00	2,000		
329	Tech vault drains	3	ea	500.00	1,500		
330	Sand slit drains at sports fields	18,179	lf	8.50	154,522		
331	<u>Connections</u>						
332	Connect to existing structure (inside site)	2	ea	5,000.00	10,000		
333	Connect to existing (inside site)	1	ea	10,000.00	10,000		
334	Connect to existing (in roadway)	1	ea	10,000.00	10,000		
335	Video Inspection	1	ls	10,000.00	NR		
336	334000 SURFACE DRAINAGE SYSTEMS						
337	Bio retention/Rain Garden	5,652	sf				
338	shape basins	5,652	sf	2.50	14,130		
339	mulch	52	cy	50.00	2,600		
340	36" Planting soil mix	628	cy	60.00	37,680		
341	12" crushed stone	209	cy	45.00	9,405		
342	4" PVC pipe; allowance	100	lf	40.00	4,000		
343	Geotextiles	5,652	sf	0.75	4,239		
344	334000 SUBSURFACE DRAINAGE SYSTEMS						





60% CD Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
<b>SITework</b>							
345	<u>Underground recharger</u>						
346	Underground stormwater storage - precast	11,150	sf	45.00	501,750		
347	<u>Underground recharger</u>	4,875	sf				
348	Cultech 280 HD chambers and installation - 42.55 cuft/per chamber with a 6" stone base	523	ea	150.00	78,450		
349	Cultech 280 HD end cap and installation - allowance	10	ea	200.00	2,000		
350	Excavate and reuse on-site	722	cy	25.00	18,050		
351	Install stone base	149	tn	65.00	9,685		
352	Fine grade base	4,875	sf	0.25	1,219		
353	Back-fill infiltration bed with 1-2" crushed stone	1,726	tn	50.00	86,300		
354	Geotextile fabrics	12,188	sf	0.75	9,141		
355	SUBTOTAL					2,256,896	
356							
357	<u>Gas service</u>						
358	E&B trench for new lines, pipe and install by utilities						
359	New gas service	495	lf	35.00	17,325		
360	SUBTOTAL					17,325	
361							
362	<b>G40 ELECTRICAL UTILITIES</b>						
363	<u>Site Electrical Civil Work</u>						
364	Concrete:						
365	Primary duct bank	300	lf	20.00	6,000		
366	Secondary service duct bank	190	lf	55.00	10,450		
367	Generator service duct bank	230	lf	20.00	4,600		
368	Telecommunications duct bank	320	lf	35.00	11,200		
369	Electric manhole	1	ea	8,500.00	8,500		
370	Transformer pad	1	ea	2,000.00	2,000		
371	Generator pad	1	ea	3,000.00	3,000		
372	Site lighting pole bases	59	ea	350.00	20,650		
373	Excavation and backfill						
374	Primary duct bank	300	lf	25.00	7,500		
375	Secondary service duct bank	190	lf	40.00	7,600		
376	Generator service duct bank	230	lf	30.00	6,900		
377	Telecommunications duct bank	320	lf	30.00	9,600		
378	Fire pump duct bank	150	lf	25.00	3,750		
379							
380	<u>Power (CU conductors only per EE)</u>						
381	Utility co. back charges, allow					By Owner	
382	Electrical service riser	1	ea	2,000.00	2,000		
383	Manhole	1	ea			Civil	
384	Primary ductbank 2-4" ductbank, empty	300	lf	40.00	12,000		
385	Transformer by utility company	1	ea			By Utility Co.	
386	Transformer pad	1	ea			Civil	
387	3000A Secondary service	190	lf	1,080.00	205,200		
388	Generator service 1200A & 100A feed with control wiring	230	lf	445.00	102,350		
389	Fire pump ductbank 150A (Total of (2) runs	300	lf	50.00	15,000		
390	2: conduit to Greenhouse from panelboard PP1-R	310	lf	10.00	3,100		
391	<u>Communications</u>						
392	Connection at riser pole, allow	1	ea	1,500.00	1,500		
393	Tele/data/catv ductbank 4-4"	320	lf	80.00	25,600		
394	<u>Site Lighting</u>						
395	Type SL1/SL1F	41	ea	2,000.00	82,000		
396	Type SL2	14	ea	2,000.00	28,000		
397	Type SL3	2	ea	2,650.00	5,300		
398	Type SLF	2	ea	850.00	1,700		
399	Circuitry	7,000	lf	12.00	84,000		
400	Pole grounding	59	ea	150.00	8,850		



60% CD Estimate

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
<b>SITework</b>								
401	Pole base	59	ea		Civil			
402	<u>EV Stations</u>							
403	EV charging stations and 40A circuitry	2	loc	12,000.00		24,000		
404	<u>Football/Soccer/Track Field/Baseball Field</u>							
405	Electrical to GFI receptacles and score board	1	ls	15,000.00		15,000		
406	<u>Trash Compactor</u>							
407	Trash compactor feed and connection	1	ls	3,500.00		3,500		
408	<u>Site Security (allowance Ai3)</u>							
409	Exterior cameras; parking lot	1	allow	100,000.00		100,000		
410	Exterior field cameras; parking lot	1	allow	100,000.00		100,000		
411	SUBTOTAL					920,850		
412	<b>SUBTOTAL - SITE DEVELOPMENT</b>							
413								<b>\$11,388,618</b>



60% CD Estimate

GFA

770

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**STORAGE BUILDING - METAL BUILDING DESIGN**

**GROSS FLOOR AREA CALCULATION**

Storage Shed 770

<b>TOTAL GROSS FLOOR AREA (GFA)</b>						<b>770 sf</b>
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**A10 FOUNDATIONS**

**A1010 STANDARD FOUNDATIONS**

Strip Footing

Formwork	228	sf	14.00	3,192
Re-bar	1,140	lbs.	2.00	2,280
Concrete material	10	cy	140.00	1,400
Placing concrete	10	cy	90.00	900
<u>Foundation wall; 8" thick</u>				
Formwork	912	sf	20.00	18,240
Re-bar	2,280	lbs.	2.00	4,560
Concrete material	12	cy	140.00	1,680
Placing concrete	12	cy	90.00	1,080

070001 WATERPROOFING, DAMPPROOFING AND CAULKING

Damp proofing foundation wall and footing	456	sf	3.00	NIC
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072100 THERMAL INSULATION

Insulation	456	sf	3.00	1,368
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312000 EARTHWORK

Continuous footings

Excavation	130	cy	14.00	1,820
Remove off site	130	cy	15.00	1,950
Backfill with imported material	108	cy	28.00	3,024
SUBTOTAL				41,494

**A1020 SPECIAL FOUNDATIONS**

No Work in this section

SUBTOTAL				-
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**A1030 LOWEST FLOOR CONSTRUCTION**

New Slab on grade, 6" thick

Vapor barrier	770	sf	1.00	770
Mesh reinforcing 15% lap	886	sf	1.50	1,329
Concrete - 6" thick; 4,000 psi	15	cy	135.00	2,025
Placing concrete	15	cy	55.00	825
Finishing and curing concrete	770	sf	2.75	2,118
Control joints - saw cut	770	sf	0.22	169

072100 THERMAL INSULATION

2" Rigid insulation		sf	2.25	NR
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312000 EARTHWORK

Compact existing sub-grade	770	sf	0.50	385
Gravel fill, 8"	19	cy	36.00	684
SUBTOTAL				8,305

<b>TOTAL - FOUNDATIONS</b>						<b>\$49,799</b>
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**A20 BASEMENT CONSTRUCTION**



60% CD Estimate

GFA

770

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**STORAGE BUILDING - METAL BUILDING DESIGN**

**A2010 BASEMENT EXCAVATION**

No Work in this section

SUBTOTAL

-

**A2020 BASEMENT WALLS**

No Work in this section

SUBTOTAL

-

**TOTAL - BASEMENT CONSTRUCTION**

**\$0**

**B10 SUPERSTRUCTURE**

**B1010 FLOOR CONSTRUCTION**

No Work in this section

SUBTOTAL

-

**B1020 ROOF CONSTRUCTION**

No work in this section

SUBTOTAL

-

**TOTAL - SUPERSTRUCTURE**

**\$0**

**B20 EXTERIOR CLOSURE**

**B2010 EXTERIOR WALLS**

No work in this section

SUBTOTAL

-

**B2020 WINDOWS**

No work in this section

SUBTOTAL

-

**B2030 EXTERIOR DOORS**

**061000 ROUGH CARPENTRY**

Wood blocking at openings

17

lf

8.00

136

**070001 WATERPROOFING, DAMPPROOFING AND CAULKING**

Backer rod & double sealant

17

lf

11.00

187

**081110 HOLLOW METAL**

Thermally insulated and galvanized

Frames, single

1

ea

450.00

450

Type F; Flush HM door

1

leaf

500.00

500

**083300 OVERHEAD DOOR**

Garage doors

10' x 10'

1

ea

9,000.00

9,000

**087100 DOOR HARDWARE**

Hardware

1

ea

1,800.00

1,800

SUBTOTAL

12,073

**TOTAL - EXTERIOR CLOSURE**

**\$12,073**

**B30 ROOFING**

**B3010 ROOF COVERINGS**



60% CD Estimate

GFA

770

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST	
<b>STORAGE BUILDING - METAL BUILDING DESIGN</b>								
122	No work in this section							
123	SUBTOTAL					-		
124								
125	<b>B3020 ROOF OPENINGS</b>							
126	No work in this section							
127	SUBTOTAL					-		
128								
129	<b>TOTAL - ROOFING</b>							<b>\$0</b>
130								
131								
132	<b>C10 INTERIOR CONSTRUCTION</b>							
133								
134								
135	<b>C1010 PARTITIONS</b>							
136	No work in this section							
137	SUBTOTAL					-		
138								
139	<b>C1020 INTERIOR DOORS</b>							
140	No work in this section							
141	SUBTOTAL					-		
142								
143	<b>C1030 SPECIALTIES / MILLWORK</b>							
144	No work in this section							
145	SUBTOTAL					-		
146								
147	<b>TOTAL - INTERIOR CONSTRUCTION</b>							<b>\$0</b>
148								
149								
150	<b>C20 STAIRCASES</b>							
151								
152	<b>C2010 STAIR CONSTRUCTION</b>							
153	No work in this section							
154	SUBTOTAL					-		
155								
156	<b>C2020 STAIR FINISHES</b>							
157	No work in this section							
158	SUBTOTAL					-		
159								
160	<b>TOTAL - STAIRCASES</b>							<b>\$0</b>
161								
162								
163	<b>C30 INTERIOR FINISHES</b>							
164								
165								
166	<b>C3010 WALL FINISHES</b>							
167	No work in this section							
168	SUBTOTAL					-		
169								
170	<b>C3020 FLOOR FINISHES</b>							
171	No work in this section							
172	SUBTOTAL					-		
173								
174	<b>C3030 CEILING FINISHES</b>							
175	No work in this section							
176	SUBTOTAL					-		
177								
178	<b>TOTAL - INTERIOR FINISHES</b>							<b>\$0</b>
179								
180								
181	<b>D10 CONVEYING SYSTEMS</b>							
182								
183	<b>D1010 ELEVATOR</b>							
184	No work in this section							
185	SUBTOTAL					-		
186								
187	<b>TOTAL - CONVEYING SYSTEMS</b>							<b>\$0</b>



Somerset Middle School  
Somerset, MA

09-Feb-22

60% CD Estimate

GFA

770

CSI CODE	DESCRIPTION	QTY	UNIT	UNIT COST	EST'D COST	SUB TOTAL	TOTAL COST
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**STORAGE BUILDING - METAL BUILDING DESIGN**

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**D20 PLUMBING**

**D20 PLUMBING, GENERALLY**  
No work in this section  
SUBTOTAL

-

**TOTAL - PLUMBING \$0**

**D30 HVAC**

**D30 HVAC, GENERALLY**  
No work in this section  
SUBTOTAL

-

**TOTAL - HVAC \$0**

**D40 FIRE PROTECTION**

**D40 FIRE PROTECTION, GENERALLY**  
No work in this section  
SUBTOTAL

-

**TOTAL - FIRE PROTECTION \$0**

**D50 ELECTRICAL**

Electrical work; allowance  
SUBTOTAL

770 sf 8.00 6,160 6,160

**TOTAL - ELECTRICAL \$6,160**

**E10 EQUIPMENT**

**E10 EQUIPMENT, GENERALLY**  
No work in this section  
SUBTOTAL

-

**TOTAL - EQUIPMENT \$0**

**E20 FURNISHINGS**

**E2010 FIXED FURNISHINGS**  
No work in this section  
SUBTOTAL

-

**E2020 MOVABLE FURNISHINGS**  
All movable furnishings to be provided and installed  
by owner  
SUBTOTAL

NIC

**TOTAL - FURNISHINGS \$0**

**F10 SPECIAL CONSTRUCTION**

**F10 SPECIAL CONSTRUCTION**  
Pre-engineered metal building  
SUBTOTAL

770 sf 60.00 46,200 \$46,200

**TOTAL - SPECIAL CONSTRUCTION \$46,200**

**F20 SELECTIVE BUILDING DEMOLITION**



Somerset Middle School  
Somerset, MA

09-Feb-22

60% CD Estimate

GFA

770

<i>CSI CODE</i>	<i>DESCRIPTION</i>	<i>QTY</i>	<i>UNIT</i>	<i>UNIT COST</i>	<i>EST'D COST</i>	<i>SUB TOTAL</i>	<i>TOTAL COST</i>
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**STORAGE BUILDING - METAL BUILDING DESIGN**

256	<b>F2010 BUILDING ELEMENTS DEMOLITION</b>						
257	See main summary for demolition of existing buildings						
258	SUBTOTAL					\$0	

259	<b>F2020 HAZARDOUS COMPONENTS ABATEMENT</b>						
260	See main summary for HazMat allowance				See Summary		
261	SUBTOTAL					\$0	

262	<b>TOTAL - SELECTIVE BUILDING DEMOLITION</b>						<b>\$0</b>	
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263	<b>SUBTOTAL</b>						<b>\$114,232</b>	
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